



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: SMRITIKANA PAL

Honours: ECONOMICS

Roll No. 170310400107

| Semester No.   | Subject                   | Course Code | Course Title                          | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year      | SGPA on the basis of |             | Result Code |
|--|---------------------------|-------------|---------------------------------------|-----------|------------------|-------------------|---------------------------|----------------------|-------------|-------------|
|  |                           |             |                                       |           |                  |                   |                           | CCs & DSEs           | All Courses |             |
| I  | ECONOMICS                 | CC-1        | Introductory Microeconomics           | 6         | 6                | 36                | 2017                      | 5.00                 | 5.45        | Q           |
|  |                           | CC-2        | Statistics-I                          | 4         | 6                | 24                | 2017                      |                      |             |             |
|  | STATISTICS                | GE-1        | Statistical Methods                   | 6         | 6                | 36                | 2017                      |                      |             |             |
|  | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies | 6         | 4                | 24                | 2017                      |                      |             |             |
| II   | ECONOMICS                 | CC-3        | Introductory Macroeconomics           | 4         | 6                | 24                | 2018                      | 4.00                 | 4.80        | Q           |
|  |                           | CC-4        | Mathematical Economics-I              | 4         | 6                | 24                | 2018                      |                      |             |             |
|  | STATISTICS                | GE-2        | Introductory Probability              | 5         | 6                | 30                | 2019                      |                      |             |             |
|  | Communicative English/MIL | AECC-2      | Bengali                               | 9         | 2                | 18                | 2018                      |                      |             |             |
| III  | ECONOMICS                 | CC-5        | Intermediate Microeconomics           | 6         | 6                | 36                | 2018                      | 6.33                 | 6.00        | Q           |
|  |                           | CC-6        | Intermediate Macroeconomics           | 5         | 6                | 30                | 2018                      |                      |             |             |
|  |                           | CC-7        | Mathematical Economics -II            | 8         | 6                | 48                | 2018                      |                      |             |             |
|  | MATHEMATICS               | GE-3        | Real Analysis                         | 5         | 6                | 30                | 2019                      |                      |             |             |
|  | ECONOMICS                 | SEC-1       | Managerial Economics                  | 6         | 2                | 12                | 2018                      |                      |             |             |
| IV   | ECONOMICS                 | CC-8        | Selected Features of Indian Economy   | 6         | 6                | 36                | 2019                      | 6.67                 | 6.31        | Q           |
|  |                           | CC-9        | Statistics-II                         | 8         | 6                | 48                | 2019                      |                      |             |             |
|  |                           | CC-10       | Development Economics                 | 6         | 6                | 36                | 2019                      |                      |             |             |
|  | MATHEMATICS               | GE-4        | Algebra                               | 4         | 6                | 24                | 2019                      |                      |             |             |
|  | ECONOMICS                 | SEC-2       | Basic Computer Applications           | 10        | 2                | 20                | 2019                      |                      |             |             |
| V  | ECONOMICS                 | CC-11       | International Economics               | 7         | 6                | 42                | 2019                      | 6.50                 | 6.50        | Q           |
|  |                           | CC-12       | Money and Banking                     | 6         | 6                | 36                | 2019                      |                      |             |             |
|  | ECONOMICS                 | DSE-1       | Rural Development                     | 6         | 6                | 36                | 2019                      |                      |             |             |
|  |                           | DSE-2       | Public Economics                      | 7         | 6                | 42                | 2019                      |                      |             |             |
| VI   | ECONOMICS                 | CC-13       | Basic Econometrics                    | 5         | 6                | 30                | 2020                      | 7.50                 | 7.50        | Q           |
|  |                           | CC-14       | Field Survey & Project Report         | 10        | 6                | 60                | 2020                      |                      |             |             |
|  | ECONOMICS                 | DSE-3       | Political Economy                     | 6         | 6                | 36                | 2020                      |                      |             |             |
|  |                           | DSE-4       | Entrepreneurship Development          | 9         | 6                | 54                | 2020                      |                      |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : 6.28  |                           |             |                                       |           |                  |                   | Letter Grade in CGPA : B+ | Result : Q           |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : 6.14 |                           |             |                                       |           |                  |                   |                           |                      |             |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Jyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



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**GRADE CARD**

Name: SOURAV PAUL

Honours: CHEMISTRY

Roll No. 170311100084

| Semester No.   | Subject                   | Course Code | Course Title                                 | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year     | SGPA on the basis of |             | Result Code |
|--|---------------------------|-------------|--|-----------|------------------|-------------------|--------------------------|----------------------|-------------|-------------|
|  |                           |             |  |           |                  |                   |                          | CCs & DSEs           | All Courses |             |
| I  | CHEMISTRY                 | CC-1        | Organic Chemistry-I                          | 6         | 6                | 36                | 2017                     | 6.00                 | 5.73        | Q           |
|  |                           | CC-2        | Physical Chemistry-I                         | 6         | 6                | 36                | 2017                     |                      |             |             |
|  | MATHEMATICS               | GE-1        | Differential Calculus                        | 5         | 6                | 30                | 2018                     |                      |             |             |
|  | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies        | 6         | 4                | 24                | 2017                     |                      |             |             |
| II   | CHEMISTRY                 | CC-3        | Inorganic Chemistry-I                        | 5         | 6                | 30                | 2018                     | 5.00                 | 5.30        | Q           |
|  |                           | CC-4        | Organic Chemistry-II                         | 5         | 6                | 30                | 2018                     |                      |             |             |
|  | PHYSICS                   | GE-2        | Electricity and Magnetism                    | 5         | 6                | 30                | 2018                     |                      |             |             |
|  | Communicative English/MIL | AECC-2      | Communicative English                        | 8         | 2                | 16                | 2018                     |                      |             |             |
| III  | CHEMISTRY                 | CC-5        | Physical Chemistry-II                        | 5         | 6                | 30                | 2018                     | 5.00                 | 4.69        | Q           |
|  |                           | CC-6        | Inorganic Chemistry-II                       | 6         | 6                | 36                | 2018                     |                      |             |             |
|  |                           | CC-7        | Organic Chemistry-III                        | 4         | 6                | 24                | 2018                     |                      |             |             |
|  | MATHEMATICS               | GE-3        | Real Analysis                                | 4         | 6                | 24                | 2019                     |                      |             |             |
|  | CHEMISTRY                 | SEC-1       | Basic Analytical Chemistry                   | 4         | 2                | 8                 | 2018                     |                      |             |             |
| IV   | CHEMISTRY                 | CC-8        | Physical Chemistry-III                       | 5         | 6                | 30                | 2019                     | 4.67                 | 5.08        | Q           |
|  |                           | CC-9        | Inorganic Chemistry-III                      | 4         | 6                | 24                | 2019                     |                      |             |             |
|  |                           | CC-10       | Organic Chemistry - IV                       | 5         | 6                | 30                | 2019                     |                      |             |             |
|  | PHYSICS                   | GE-4        | Waves and Optics                             | 5         | 6                | 30                | 2019                     |                      |             |             |
|  | CHEMISTRY                 | SEC-2       | Pharmaceutical Chemistry                     | 9         | 2                | 18                | 2019                     |                      |             |             |
| V  | CHEMISTRY                 | CC-11       | Inorganic Chemistry-IV                       | 5         | 6                | 30                | 2019                     | 5.00                 | 5.00        | Q           |
|  |                           | CC-12       | Organic Chemistry-V                          | 4         | 6                | 24                | 2019                     |                      |             |             |
|  | CHEMISTRY                 | DSE-1       | Advanced Physical Chemistry                  | 5         | 6                | 30                | 2019                     |                      |             |             |
|  |                           | DSE-2       | Analytical Methods in Chemistry              | 6         | 6                | 36                | 2019                     |                      |             |             |
| VI   | CHEMISTRY                 | CC-13       | Inorganic Chemistry-V                        | 7         | 6                | 42                | 2020                     | 8.75                 | 8.75        | Q           |
|  |                           | CC-14       | Physical Chemistry-IV                        | 9         | 6                | 54                | 2020                     |                      |             |             |
|  | CHEMISTRY                 | DSE-3       | Polymer Chemistry                            | 9         | 6                | 54                | 2020                     |                      |             |             |
|  |                           | DSE-4       | Inorganic Materials of Industrial Importance | 10        | 6                | 60                | 2020                     |                      |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : 5.89  |                           |             |  |           |                  |                   | Letter Grade in CGPA : B | Result : Q           |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : 5.75 |                           |             |  |           |                  |                   |                          |                      |             |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Jyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              | Result Codes: |   |
|--|--------------------|-----------------|--------------|---------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade  | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)   | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)      | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)      |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |               | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

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**GRADE CARD**

Name: TIRTHADWIP RUDRA

Honours: PHYSICS

Roll No. 170311100097

| Semester No.  | Subject                   | Course Code  | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |             | Result Code |
|---|---------------------------|--|--|-----------|------------------|-------------------|------------------------|----------------------|-------------|-------------|
|   |                           |  |  |           |                  |                   |                        | CCs & DSEs           | All Courses |             |
| I   | PHYSICS                   | CC-1   | Mathematical Physics-I   | 6         | 6                | 36                | 2017                   | 5.00                 | 5.36        | Q           |
|   |                           | CC-2   | Mechanics  | 4         | 6                | 24                | 2017                   |                      |             |             |
|   | MATHEMATICS               | GE-1   | Differential Calculus  | 5         | 6                | 30                | 2018                   |                      |             |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1   | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                   |                      |             |             |
| II  | PHYSICS                   | CC-3   | Electricity and Magnetism  | 5         | 6                | 30                | 2018                   | 5.00                 | 6.10        | Q           |
|   |                           | CC-4   | Waves and Optics   | 5         | 6                | 30                | 2018                   |                      |             |             |
|   | CHEMISTRY                 | GE-2   | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 7         | 6                | 42                | 2018                   |                      |             |             |
|   | Communicative English/MIL | AECC-2   | Bengali  | 10        | 2                | 20                | 2018                   |                      |             |             |
| III   | PHYSICS                   | CC-5   | Mathematical Physics-II  | 6         | 6                | 36                | 2018                   |                      |             | SNC         |
|   |                           | CC-6   | Thermal Physics  | 7         | 6                | 42                | 2018                   |                      |             |             |
|   |                           | CC-7   | Digital Systems and Applications   | 8         | 6                | 48                | 2018                   |                      |             |             |
|   | MATHEMATICS               | GE-3   | Real Analysis  | NA        | 6                | NA                |                        |                      |             |             |
| IV  | PHYSICS                   | SEC-1  | Renewable Energy and Energy Harvesting   | 5         | 2                | 10                | 2018                   | 5.00                 | 4.92        | Q           |
|   |                           | CC-8   | Mathematical Physics-III   | 5         | 6                | 30                | 2019                   |                      |             |             |
|   |                           | CC-9   | Elements of Modern Physics   | 5         | 6                | 30                | 2019                   |                      |             |             |
|   | CC-10                     | Analog Systems & Applications  | 5  | 6         | 30               | 2019              |                        |                      |             |             |
| CHEMISTRY   | GE-4                      | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 5  | 6         | 30               | 2019              |                        |                      |             |             |
| V   | PHYSICS                   | SEC-2  | Electrical Circuits and Network Skills   | 4         | 2                | 8                 | 2019                   |                      |             | SNC         |
|   |                           | CC-11  | Quantum Mechanics and Applications   | NA        | 6                | NA                |                        |                      |             |             |
|   | CC-12                     | Solid State Physics  | 4  | 6         | 24               | 2019              |                        |                      |             |             |
|   | PHYSICS                   | DSE-1  | Advanced Mathematical Physics  | 4         | 6                | 24                | 2019                   |                      |             |             |
| DSE-2   |                           | Classical Dynamics   | NA   | 6         | NA               |                   |                        |                      |             |             |
| VI  | PHYSICS                   | CC-13  | Electromagnetic Theory   | 7         | 6                | 42                | 2020                   | 6.50                 | 6.50        | Q           |
|   |                           | CC-14  | Statistical Mechanics  | 6         | 6                | 36                | 2020                   |                      |             |             |
|   | PHYSICS                   | DSE-3  | Nuclear and Particle Physics   | 5         | 6                | 30                | 2020                   |                      |             |             |
|   |                           | DSE-4  | Astronomy and Astrophysics   | 8         | 6                | 48                | 2020                   |                      |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |  |  |           |                  |                   | Letter Grade in CGPA : | Result : PNC         |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |  |  |           |                  |                   |                        |                      |             |             |

Date of Publication of Result : 29.10.2020

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*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
|  | CGPA               | Letter Grade    | CGPA         | Letter Grade |   |
| CC – Core Course                             | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | Q - Qualified   |
| GE – Generic Elective                        | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |
| AECC – Ability Enhancement Compulsory Course |                    |                 |              |              |   |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

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**GRADE CARD**

Name: ABHIK DE

Honours: STATISTICS

Roll No. 170312200002

| Semester No.   | Subject                   | Course Code | Course Title                                       | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year      | SGPA on the basis of |             | Result Code |
|--|---------------------------|-------------|--|-----------|------------------|-------------------|---------------------------|----------------------|-------------|-------------|
|  |                           |             |  |           |                  |                   |                           | CCs & DSEs           | All Courses |             |
| I  | STATISTICS                | CC-1        | Descriptive Statistics                             | 5         | 6                | 30                | 2017                      | 5.50                 | 5.18        | Q           |
|  |                           | CC-2        | Probability and Probability Distributions-I        | 6         | 6                | 36                | 2017                      |                      |             |             |
|  | MATHEMATICS               | GE-1        | Differential Calculus                              | 4         | 6                | 24                | 2018                      |                      |             |             |
|  | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies              | 6         | 4                | 24                | 2017                      |                      |             |             |
| II   | STATISTICS                | CC-3        | Mathematical Analysis                              | 7         | 6                | 42                | 2020                      | 5.50                 | 5.60        | Q           |
|  |                           | CC-4        | Probability and Probability Distributions-II       | 4         | 6                | 24                | 2018                      |                      |             |             |
|  | ECONOMICS                 | GE-2        | Macroeconomics                                     | 5         | 6                | 30                | 2019                      |                      |             |             |
|  | Communicative English/MIL | AECC-2      | Communicative English                              | 8         | 2                | 16                | 2018                      |                      |             |             |
| III  | STATISTICS                | CC-5        | Linear Algebra and Numerical Analysis              | 7         | 6                | 42                | 2018                      | 6.67                 | 6.15        | Q           |
|  |                           | CC-6        | Demography and Vital Statistics                    | 7         | 6                | 42                | 2018                      |                      |             |             |
|  |                           | CC-7        | Statistical Computing Using C/C++ Programming      | 6         | 6                | 36                | 2018                      |                      |             |             |
|  | MATHEMATICS               | GE-3        | Real Analysis                                      | 4         | 6                | 24                | 2019                      |                      |             |             |
| IV   | STATISTICS                | SEC-1       | Statistical Data Analysis Using R                  | 8         | 2                | 16                | 2018                      | 5.00                 | 5.85        | Q           |
|  |                           | CC-8        | Survey Sampling and Indian Official Statistics     | 7         | 6                | 42                | 2019                      |                      |             |             |
|  |                           | CC-9        | Statistical Inference-I and Sampling Distributions | 4         | 6                | 24                | 2019                      |                      |             |             |
|  | ECONOMICS                 | GE-4        | Features of Indian Economy                         | 8         | 6                | 48                | 2019                      |                      |             |             |
|  | STATISTICS                | SEC-2       | Research Methodology                               | 7         | 2                | 14                | 2019                      |                      |             |             |
| V  | STATISTICS                | CC-11       | Statistical Inference - II                         | 7         | 6                | 42                | 2019                      | 7.25                 | 7.25        | Q           |
|  |                           | CC-12       | Linear Models                                      | 7         | 6                | 42                | 2019                      |                      |             |             |
|  | STATISTICS                | DSE-1       | Statistical Quality Control                        | 8         | 6                | 48                | 2019                      |                      |             |             |
|  |                           | DSE-2       | Operations Research                                | 7         | 6                | 42                | 2019                      |                      |             |             |
| VI   | STATISTICS                | CC-13       | Design of Experiments                              | 8         | 6                | 48                | 2020                      | 8.50                 | 8.50        | Q           |
|  |                           | CC-14       | Multivariate Analysis and Nonparametric Methods    | 8         | 6                | 48                | 2020                      |                      |             |             |
|  | STATISTICS                | DSE-3       | Survival Analysis                                  | 8         | 6                | 48                | 2020                      |                      |             |             |
|  |                           | DSE-4       | Project Work                                       | 10        | 6                | 60                | 2020                      |                      |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : 6.67  |                           |             |  |           |                  |                   | Letter Grade in CGPA : B+ | Result : Q           |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : 6.45 |                           |             |  |           |                  |                   |                           |                      |             |             |

Date of Publication of Result : 29.10.2020

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*Anindya Jyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:  |
|--|--------------------|-----------------|--------------|--------------|--|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified  |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared   |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs < 5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |  |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                         |

**Grade Point Norms:**

|                             |    |                             |                  |
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| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

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**GRADE CARD**

Name: HIMANISH NATH

Honours: MATHEMATICS

Roll No. 170313700002

| Semester No.  | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|-------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |             |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations  | 6         | 6                | 36                | 2017                   |                      |              | SNC         |
|   |                           | CC-2        | Algebra  | NC        | 6                | NC                |                        |                      |              |             |
|   | PHYSICS                   | GE-1        | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3        | Real Analysis  | 6         | 6                | 36                | 2018                   | 5.00                 | 5.70         | Q           |
|   |                           | CC-4        | Differential Equations and Vector Calculus   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces                                       | 5         | 6                | 30                | 2018                   |                      |              | SNC         |
|   |                           | CC-6        | Group Theory I   | NA        | 6                | NA                |                        |                      |              |             |
|   |                           | CC-7        | Numerical Methods  | 8         | 6                | 48                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1       | Logic and Sets   | 6         | 2                | 12                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions  | 4         | 6                | 24                | 2019                   | 4.67                 | 5.38         | Q           |
|   |                           | CC-9        | Multivariate Calculus  | 6         | 6                | 36                | 2019                   |                      |              |             |
|   |                           | CC-10       | Ring Theory and Linear Algebra I   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4        | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | MATHEMATICS               | SEC-2       | Graph Theory   | 7         | 2                | 14                | 2019                   |                      |              |             |
| V   | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications  | 6         | 6                | 36                | 2019                   | 5.25                 | 5.25         | Q           |
|   |                           | CC-12       | Mechanics I  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1       | Linear Programming   | 7         | 6                | 42                | 2019                   |                      |              |             |
|   |                           | DSE-2       | Probability & Statistics   | 4         | 6                | 24                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis   | 9         | 6                | 54                | 2020                   | 8.50                 | 8.50         | Q           |
|   |                           | CC-14       | Ring Theory and Linear Algebra II  | 8         | 6                | 48                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3       | Group Theory II  | 9         | 6                | 54                | 2020                   |                      |              |             |
|   |                           | DSE-4       | Mechanics II   | 8         | 6                | 48                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |             |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |             |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: RITWIK DAS

Honours: MATHEMATICS

Roll No. 170330100064

| Semester No.  | Subject                   | Course Code  | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|--------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |              |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1         | Calculus, Geometry & Differential Equations  | 5         | 6                | 30                | 2017                   | 5.50                 | 6.18         | Q           |
|   |                           | CC-2         | Algebra  | 6         | 6                | 36                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1         | Mechanics  | 7         | 6                | 42                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1       | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3         | Real Analysis  | 6         | 6                | 36                | 2018                   | 5.00                 | 6.10         | Q           |
|   |                           | CC-4         | Differential Equations and Vector Calculus   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-2         | Electricity and Magnetism  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2       | Bengali  | 10        | 2                | 20                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5         | Theory of Real Functions & Introduction to Metric Spaces                                       | NA        | 6                | NA                |                        |                      |              | SNC         |
|   |                           | CC-6         | Group Theory I   | 5         | 6                | 30                | 2018                   |                      |              |             |
|   |                           | CC-7         | Numerical Methods  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-3         | Chemical Energetic, Equilibria, Organic Chemistry  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1        | Logic and Sets   | 9         | 2                | 18                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8         | Riemann Integration and Series of Functions  | 6         | 6                | 36                | 2019                   | 4.67                 | 5.38         | Q           |
|   |                           | CC-9         | Multivariate Calculus  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | CC-10        | Ring Theory and Linear Algebra I   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4         | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 6         | 6                | 36                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory | 10   | 2         | 20               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11        | Partial Differential Equations and Applications  | 7         | 6                | 42                | 2019                   |                      |              | SNC         |
|   |                           | CC-12        | Mechanics I  | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1        | Linear Programming   | 6         | 6                | 36                | 2019                   |                      |              |             |
|   |                           | DSE-2        | Probability & Statistics   | NA        | 6                | NA                |                        |                      |              |             |
| VI  | MATHEMATICS               | CC-13        | Metric Spaces and Complex Analysis   | 10        | 6                | 60                | 2020                   | 10.00                | 10.00        | Q           |
|   |                           | CC-14        | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3        | Project Work   | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4        | Mechanics II   | 10        | 6                | 60                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |              |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |              |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

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**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: **AYAN CHAUDHURY**Honours: **ZOOLOGY**Roll No. **170330300105**

| Semester No.  | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|-------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |             |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | ZOOLOGY                   | CC-1        | Non-chordates I  | 4         | 6                | 24                | 2017                   | 4.50                 | 5.18         | Q           |
|   |                           | CC-2        | Ecology  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | CHEMISTRY                 | GE-1        | Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons | 6         | 6                | 36                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                   |                      |              |             |
| II  | ZOOLOGY                   | CC-3        | Non-chordates II   | 5         | 6                | 30                | 2018                   | 4.50                 | 4.40         | Q           |
|   |                           | CC-4        | Cell Biology   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements                               | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2      | Communicative English  | 5         | 2                | 10                | 2018                   |                      |              |             |
| III   | ZOOLOGY                   | CC-5        | Chordates  | 6         | 6                | 36                | 2019                   | 5.25                 | 5.25         | Q           |
|   |                           | CC-6        | Animal Physiology: Controlling and Coordinating Systems  | NA        | 6                | NA                |                        |                      |              |             |
|   |                           | CC-7        | Fundamentals of Biochemistry   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | BOTANY                    | GE-3        | Plant Anatomy and Embryology   | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | ZOOLOGY                   | SEC-1       | Sericulture  | 6         | 2                | 12                | 2018                   |                      |              |             |
| IV  | ZOOLOGY                   | CC-8        | Comparative Anatomy of Vertebrates   | 5         | 6                | 30                | 2019                   | 4.67                 | 5.15         | Q           |
|   |                           | CC-9        | Animal Physiology: Life Sustaining Systems   | 5         | 6                | 30                | 2019                   |                      |              |             |
|   |                           | CC-10       | Immunology   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | BOTANY                    | GE-4        | Plant Physiology and Metabolism  | 6         | 6                | 36                | 2019                   |                      |              |             |
|   | ZOOLOGY                   | SEC-2       | Aquarium Fish Keeping  | 7         | 2                | 14                | 2019                   |                      |              |             |
| V   | ZOOLOGY                   | CC-11       | Molecular Biology  | 4         | 6                | 24                | 2019                   | 7.50                 | 7.50         | Q           |
|   |                           | CC-12       | Genetics   | 6         | 6                | 36                | 2019                   |                      |              |             |
|   | ZOOLOGY                   | DSE-1       | Animal Biotechnology   | 6         | 6                | 36                | 2019                   |                      |              |             |
|   |                           | DSE-2       | Parasitology   | 5         | 6                | 30                | 2019                   |                      |              |             |
| VI  | ZOOLOGY                   | CC-13       | Developmental Biology  | 8         | 6                | 48                | 2020                   | 7.50                 | 7.50         | Q           |
|   |                           | CC-14       | Evolutionary Biology   | 8         | 6                | 48                | 2020                   |                      |              |             |
|   | ZOOLOGY                   | DSE-3       | Animal Behaviour   | 6         | 6                | 36                | 2020                   |                      |              |             |
|   |                           | DSE-4       | Endocrinology  | 8         | 6                | 48                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |             |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |             |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

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**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: EYASMIN KHATUN

Honours: MATHEMATICS

Roll No. 170330400004

| Semester No.  | Subject                   | Course Code    | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|----------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |                |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1           | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2017                   | 4.00                 | 4.64         | Q           |
|   |                           | CC-2           | Algebra  | 4         | 6                | 24                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1           | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1         | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3           | Real Analysis  | 6         | 6                | 36                | 2018                   | 5.50                 | 5.90         | Q           |
|   |                           | CC-4           | Differential Equations and Vector Calculus   | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-2           | Electricity and Magnetism  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2         | Bengali  | 8         | 2                | 16                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5           | Theory of Real Functions & Introduction to Metric Spaces                                       | 4         | 6                | 24                | 2018                   | SNC                  |              |             |
|   |                           | CC-6           | Group Theory I   | NA        | 6                | NA                |                        |                      |              |             |
|   |                           | CC-7           | Numerical Methods  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-3           | Chemical Energetic, Equilibria, Organic Chemistry  | 5         | 6                | 30                | 2018                   |                      |              |             |
| MATHEMATICS   | SEC-1                     | Logic and Sets | 7  | 2         | 14               | 2018              |                        |                      |              |             |
| IV  | MATHEMATICS               | CC-8           | Riemann Integration and Series of Functions  | 4         | 6                | 24                | 2019                   | 5.00                 | 5.62         | Q           |
|   |                           | CC-9           | Multivariate Calculus  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | CC-10          | Ring Theory and Linear Algebra I   | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4           | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 6         | 6                | 36                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory   | 10   | 2         | 20               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11          | Partial Differential Equations and Applications  | 5         | 6                | 30                | 2019                   | 5.25                 | 5.25         | Q           |
|   |                           | CC-12          | Mechanics I  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1          | Linear Programming   | 6         | 6                | 36                | 2019                   |                      |              |             |
|   |                           | DSE-2          | Probability & Statistics   | 6         | 6                | 36                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13          | Metric Spaces and Complex Analysis   | 9         | 6                | 54                | 2020                   | 9.75                 | 9.75         | Q           |
|   |                           | CC-14          | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3          | Project Work   | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4          | Differential Geometry  | 10        | 6                | 60                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |                |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |                |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs





**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: ABHIJIT MONDAL

Honours: ZOOLOGY

Roll No. 170330800003

| Semester No.   | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year      | SGPA on the basis of |             | Result Code |
|--|---------------------------|-------------|--|-----------|------------------|-------------------|---------------------------|----------------------|-------------|-------------|
|  |                           |             |  |           |                  |                   |                           | CCs & DSEs           | All Courses |             |
| I  | ZOOLOGY                   | CC-1        | Non-chordates I  | 8         | 6                | 48                | 2017                      | 8.00                 | 6.82        | Q           |
|  |                           | CC-2        | Ecology  | 8         | 6                | 48                | 2017                      |                      |             |             |
|  | BOTANY                    | GE-1        | Biodiversity (Microbes, Algae, Fungi and Archegoniatae)  | 5         | 6                | 30                | 2017                      |                      |             |             |
|  | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                      |                      |             |             |
| II   | ZOOLOGY                   | CC-3        | Non-chordates II   | 8         | 6                | 48                | 2019                      | 8.50                 | 7.90        | Q           |
|  |                           | CC-4        | Cell Biology   | 9         | 6                | 54                | 2020                      |                      |             |             |
|  | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 6         | 6                | 36                | 2019                      |                      |             |             |
|  | Communicative English/MIL | AECC-2      | Bengali  | 10        | 2                | 20                | 2018                      |                      |             |             |
| III  | ZOOLOGY                   | CC-5        | Chordates  | 7         | 6                | 42                | 2018                      | 7.33                 | 7.62        | Q           |
|  |                           | CC-6        | Animal Physiology: Controlling and Coordinating Systems  | 7         | 6                | 42                | 2018                      |                      |             |             |
|  |                           | CC-7        | Fundamentals of Biochemistry   | 8         | 6                | 48                | 2019                      |                      |             |             |
|  | BOTANY                    | GE-3        | Plant Anatomy and Embryology   | 8         | 6                | 48                | 2018                      |                      |             |             |
|  | ZOOLOGY                   | SEC-1       | Apiculture   | 9         | 2                | 18                | 2018                      |                      |             |             |
| IV   | ZOOLOGY                   | CC-8        | Comparative Anatomy of Vertebrates   | 8         | 6                | 48                | 2019                      | 8.00                 | 7.77        | Q           |
|  |                           | CC-9        | Animal Physiology: Life Sustaining Systems   | 8         | 6                | 48                | 2019                      |                      |             |             |
|  |                           | CC-10       | Immunology   | 8         | 6                | 48                | 2019                      |                      |             |             |
|  | CHEMISTRY                 | GE-4        | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 7         | 6                | 42                | 2019                      |                      |             |             |
|  | ZOOLOGY                   | SEC-2       | Aquarium Fish Keeping  | 8         | 2                | 16                | 2019                      |                      |             |             |
| V  | ZOOLOGY                   | CC-11       | Molecular Biology  | 8         | 6                | 48                | 2019                      | 8.25                 | 8.25        | Q           |
|  |                           | CC-12       | Genetics   | 8         | 6                | 48                | 2019                      |                      |             |             |
|  | ZOOLOGY                   | DSE-1       | Animal Biotechnology   | 8         | 6                | 48                | 2019                      |                      |             |             |
|  |                           | DSE-2       | Parasitology   | 9         | 6                | 54                | 2019                      |                      |             |             |
| VI   | ZOOLOGY                   | CC-13       | Developmental Biology  | 9         | 6                | 54                | 2020                      | 9.50                 | 9.50        | Q           |
|  |                           | CC-14       | Evolutionary Biology   | 9         | 6                | 54                | 2020                      |                      |             |             |
|  | ZOOLOGY                   | DSE-3       | Animal Behaviour   | 10        | 6                | 60                | 2020                      |                      |             |             |
|  |                           | DSE-4       | Endocrinology  | 10        | 6                | 60                | 2020                      |                      |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : 8.33  |                           |             |  |           |                  |                   | Letter Grade in CGPA : A+ |                      | Result : Q  |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : 7.99 |                           |             |  |           |                  |                   |                           |                      |             |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: ARNAB KUMAR GHOSH

Honours: MATHEMATICS

Roll No. 170330800009

| Semester No.  | Subject                   | Course Code  | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|--------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |              |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1         | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2017                   | 4.50                 | 4.91         | Q           |
|   |                           | CC-2         | Algebra  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-1         | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1       | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3         | Real Analysis  | 4         | 6                | 24                | 2018                   | 4.00                 | 5.40         | Q           |
|   |                           | CC-4         | Differential Equations and Vector Calculus   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2         | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2       | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5         | Theory of Real Functions & Introduction to Metric Spaces                                       | NA        | 6                | NA                |                        | 5.33                 | 5.69         | SNC         |
|   |                           | CC-6         | Group Theory I   | 5         | 6                | 30                | 2018                   |                      |              |             |
|   |                           | CC-7         | Numerical Methods  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3         | Thermal Physics and Statistical Mechanics  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1        | Logic and Sets   | 9         | 2                | 18                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8         | Riemann Integration and Series of Functions  | 5         | 6                | 30                | 2019                   | 5.33                 | 5.69         | Q           |
|   |                           | CC-9         | Multivariate Calculus  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | CC-10        | Ring Theory and Linear Algebra I   | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4         | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 6         | 6                | 36                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory | 8  | 2         | 16               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11        | Partial Differential Equations and Applications  | 8         | 6                | 48                | 2019                   | 6.50                 | 6.50         | Q           |
|   |                           | CC-12        | Mechanics I  | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1        | Linear Programming   | 6         | 6                | 36                | 2019                   |                      |              |             |
|   |                           | DSE-2        | Probability & Statistics   | 5         | 6                | 30                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13        | Metric Spaces and Complex Analysis   | 9         | 6                | 54                | 2020                   | 9.75                 | 9.75         | Q           |
|   |                           | CC-14        | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3        | Group Theory II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4        | Mechanics II   | 10        | 6                | 60                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |              |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |              |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: RIYA SAHA

Honours: MATHEMATICS

Roll No. 170330800076

| Semester No.  | Subject                   | Course Code  | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|--------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |              |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1         | Calculus, Geometry & Differential Equations  | 6         | 6                | 36                | 2017                   | 5.00                 | 4.73         | Q           |
|   |                           | CC-2         | Algebra  | 4         | 6                | 24                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1         | Mechanics  | 4         | 6                | 24                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1       | Fundamentals of Environmental Studies  | 5         | 4                | 20                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3         | Real Analysis  | 6         | 6                | 36                | 2018                   | 5.50                 | 6.00         | Q           |
|   |                           | CC-4         | Differential Equations and Vector Calculus   | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2         | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2       | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5         | Theory of Real Functions & Introduction to Metric Spaces                                       | NA        | 6                | NA                |                        |                      |              | SNC         |
|   |                           | CC-6         | Group Theory I   | 6         | 6                | 36                | 2018                   |                      |              |             |
|   |                           | CC-7         | Numerical Methods  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3         | Thermal Physics and Statistical Mechanics  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1        | Logic and Sets   | 9         | 2                | 18                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8         | Riemann Integration and Series of Functions  | 6         | 6                | 36                | 2019                   | 6.33                 | 6.46         | Q           |
|   |                           | CC-9         | Multivariate Calculus  | 5         | 6                | 30                | 2019                   |                      |              |             |
|   |                           | CC-10        | Ring Theory and Linear Algebra I   | 8         | 6                | 48                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4         | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 6         | 6                | 36                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory | 9  | 2         | 18               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11        | Partial Differential Equations and Applications  | 7         | 6                | 42                | 2019                   | 5.50                 | 5.50         | Q           |
|   |                           | CC-12        | Mechanics I  | 6         | 6                | 36                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1        | Linear Programming   | 5         | 6                | 30                | 2019                   |                      |              |             |
|   |                           | DSE-2        | Probability & Statistics   | 4         | 6                | 24                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13        | Metric Spaces and Complex Analysis   | 6         | 6                | 36                | 2020                   | 8.50                 | 8.50         | Q           |
|   |                           | CC-14        | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3        | Group Theory II  | 9         | 6                | 54                | 2020                   |                      |              |             |
|   |                           | DSE-4        | Mechanics II   | 9         | 6                | 54                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |              |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |              |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: SAMIMA KHATUN

Honours: MATHEMATICS

Roll No. 170330800083

| Semester No.   | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year      | SGPA on the basis of |             | Result Code |
|--|---------------------------|-------------|--|-----------|------------------|-------------------|---------------------------|----------------------|-------------|-------------|
|  |                           |             |  |           |                  |                   |                           | CCs & DSEs           | All Courses |             |
| I  | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2017                      | 4.50                 | 4.64        | Q           |
|  |                           | CC-2        | Algebra  | 5         | 6                | 30                | 2018                      |                      |             |             |
|  | PHYSICS                   | GE-1        | Mechanics  | 4         | 6                | 24                | 2017                      |                      |             |             |
|  | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                      |                      |             |             |
| II   | MATHEMATICS               | CC-3        | Real Analysis  | 7         | 6                | 42                | 2018                      | 6.00                 | 6.00        | Q           |
|  |                           | CC-4        | Differential Equations and Vector Calculus   | 5         | 6                | 30                | 2018                      |                      |             |             |
|  | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 5         | 6                | 30                | 2018                      |                      |             |             |
|  | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                      |                      |             |             |
| III  | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces                                       | 5         | 6                | 30                | 2019                      | 5.67                 | 5.92        | Q           |
|  |                           | CC-6        | Group Theory I   | 6         | 6                | 36                | 2018                      |                      |             |             |
|  |                           | CC-7        | Numerical Methods  | 6         | 6                | 36                | 2018                      |                      |             |             |
|  | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics  | 6         | 6                | 36                | 2018                      |                      |             |             |
|  | MATHEMATICS               | SEC-1       | Logic and Sets   | 8         | 2                | 16                | 2018                      |                      |             |             |
| IV   | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions  | 4         | 6                | 24                | 2019                      | 5.67                 | 6.31        | Q           |
|  |                           | CC-9        | Multivariate Calculus  | 5         | 6                | 30                | 2019                      |                      |             |             |
|  |                           | CC-10       | Ring Theory and Linear Algebra I   | 8         | 6                | 48                | 2019                      |                      |             |             |
|  | CHEMISTRY                 | GE-4        | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 7         | 6                | 42                | 2019                      |                      |             |             |
|  | MATHEMATICS               | SEC-2       | Graph Theory   | 10        | 2                | 20                | 2019                      |                      |             |             |
| V  | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications  | 9         | 6                | 54                | 2019                      | 7.00                 | 7.00        | Q           |
|  |                           | CC-12       | Mechanics I  | 8         | 6                | 48                | 2019                      |                      |             |             |
|  | MATHEMATICS               | DSE-1       | Linear Programming   | 6         | 6                | 36                | 2019                      |                      |             |             |
|  |                           | DSE-2       | Probability & Statistics   | 5         | 6                | 30                | 2019                      |                      |             |             |
| VI   | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis   | 6         | 6                | 36                | 2020                      | 9.00                 | 9.00        | Q           |
|  |                           | CC-14       | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                      |                      |             |             |
|  | MATHEMATICS               | DSE-3       | Group Theory II  | 10        | 6                | 60                | 2020                      |                      |             |             |
|  |                           | DSE-4       | Mechanics II   | 10        | 6                | 60                | 2020                      |                      |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : 6.61  |                           |             |  |           |                  |                   | Letter Grade in CGPA : B+ |                      | Result : Q  |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : 6.51 |                           |             |  |           |                  |                   |                           |                      |             |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: SUVOJIT MONDAL

Honours: ZOOLOGY

Roll No. 170330800102

| Semester No.   | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year     | SGPA on the basis of |             | Result Code |
|--|---------------------------|-------------|--|-----------|------------------|-------------------|--------------------------|----------------------|-------------|-------------|
|  |                           |             |  |           |                  |                   |                          | CCs & DSEs           | All Courses |             |
| I  | ZOOLOGY                   | CC-1        | Non-chordates I  | 5         | 6                | 30                | 2017                     | 6.00                 | 5.73        | Q           |
|  |                           | CC-2        | Ecology  | 7         | 6                | 42                | 2017                     |                      |             |             |
|  | BOTANY                    | GE-1        | Biodiversity (Microbes, Algae, Fungi and Archegoniatae)  | 5         | 6                | 30                | 2017                     |                      |             |             |
|  | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                     |                      |             |             |
| II   | ZOOLOGY                   | CC-3        | Non-chordates II   | 7         | 6                | 42                | 2019                     | 7.50                 | 7.20        | Q           |
|  |                           | CC-4        | Cell Biology   | 8         | 6                | 48                | 2020                     |                      |             |             |
|  | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 6         | 6                | 36                | 2018                     |                      |             |             |
|  | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                     |                      |             |             |
| III  | ZOOLOGY                   | CC-5        | Chordates  | 7         | 6                | 42                | 2018                     | 6.67                 | 6.85        | Q           |
|  |                           | CC-6        | Animal Physiology: Controlling and Coordinating Systems  | 7         | 6                | 42                | 2018                     |                      |             |             |
|  |                           | CC-7        | Fundamentals of Biochemistry   | 6         | 6                | 36                | 2019                     |                      |             |             |
|  | BOTANY                    | GE-3        | Plant Anatomy and Embryology   | 7         | 6                | 42                | 2018                     |                      |             |             |
|  | ZOOLOGY                   | SEC-1       | Apiculture   | 8         | 2                | 16                | 2018                     |                      |             |             |
| IV   | ZOOLOGY                   | CC-8        | Comparative Anatomy of Vertebrates   | 7         | 6                | 42                | 2019                     | 7.33                 | 7.54        | Q           |
|  |                           | CC-9        | Animal Physiology: Life Sustaining Systems   | 8         | 6                | 48                | 2019                     |                      |             |             |
|  |                           | CC-10       | Immunology   | 7         | 6                | 42                | 2019                     |                      |             |             |
|  | CHEMISTRY                 | GE-4        | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 8         | 6                | 48                | 2019                     |                      |             |             |
|  | ZOOLOGY                   | SEC-2       | Aquarium Fish Keeping  | 8         | 2                | 16                | 2019                     |                      |             |             |
| V  | ZOOLOGY                   | CC-11       | Molecular Biology  | 9         | 6                | 54                | 2019                     | 8.25                 | 8.25        | Q           |
|  |                           | CC-12       | Genetics   | 7         | 6                | 42                | 2019                     |                      |             |             |
|  | ZOOLOGY                   | DSE-1       | Animal Biotechnology   | 9         | 6                | 54                | 2019                     |                      |             |             |
|  |                           | DSE-2       | Parasitology   | 8         | 6                | 48                | 2019                     |                      |             |             |
| VI   | ZOOLOGY                   | CC-13       | Developmental Biology  | 10        | 6                | 60                | 2020                     | 9.50                 | 9.50        | Q           |
|  |                           | CC-14       | Evolutionary Biology   | 9         | 6                | 54                | 2020                     |                      |             |             |
|  | ZOOLOGY                   | DSE-3       | Animal Behaviour   | 10        | 6                | 60                | 2020                     |                      |             |             |
|  |                           | DSE-4       | Endocrinology  | 9         | 6                | 54                | 2020                     |                      |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : 7.78  |                           |             |  |           |                  |                   | Letter Grade in CGPA : A |                      | Result : Q  |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : 7.54 |                           |             |  |           |                  |                   |                          |                      |             |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: SHANKHACHUR GHOSH

Honours: MATHEMATICS

Roll No. 170330900046

| Semester No.   | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year     | SGPA on the basis of |             | Result Code |
|--|---------------------------|-------------|--|-----------|------------------|-------------------|--------------------------|----------------------|-------------|-------------|
|  |                           |             |  |           |                  |                   |                          | CCs & DSEs           | All Courses |             |
| I  | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2018                     | 4.00                 | 5.09        | Q           |
|  |                           | CC-2        | Algebra  | 4         | 6                | 24                | 2017                     |                      |             |             |
|  | CHEMISTRY                 | GE-1        | Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons | 6         | 6                | 36                | 2017                     |                      |             |             |
|  | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                     |                      |             |             |
| II   | MATHEMATICS               | CC-3        | Real Analysis  | 5         | 6                | 30                | 2018                     | 5.00                 | 5.70        | Q           |
|  |                           | CC-4        | Differential Equations and Vector Calculus   | 5         | 6                | 30                | 2018                     |                      |             |             |
|  | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements                               | 6         | 6                | 36                | 2018                     |                      |             |             |
|  | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                     |                      |             |             |
| III  | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces   | 4         | 6                | 24                | 2018                     | 4.67                 | 4.92        | Q           |
|  |                           | CC-6        | Group Theory I   | 4         | 6                | 24                | 2019                     |                      |             |             |
|  |                           | CC-7        | Numerical Methods  | 6         | 6                | 36                | 2018                     |                      |             |             |
|  | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics  | 5         | 6                | 30                | 2018                     |                      |             |             |
|  | MATHEMATICS               | SEC-1       | Logic and Sets   | 7         | 2                | 14                | 2018                     |                      |             |             |
| IV   | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions  | 5         | 6                | 30                | 2019                     | 4.33                 | 4.85        | Q           |
|  |                           | CC-9        | Multivariate Calculus  | 4         | 6                | 24                | 2019                     |                      |             |             |
|  |                           | CC-10       | Ring Theory and Linear Algebra I   | 4         | 6                | 24                | 2019                     |                      |             |             |
|  | PHYSICS                   | GE-4        | Waves and Optics   | 5         | 6                | 30                | 2019                     |                      |             |             |
|  | MATHEMATICS               | SEC-2       | Graph Theory   | 9         | 2                | 18                | 2019                     |                      |             |             |
| V  | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications  | 4         | 6                | 24                | 2019                     | 5.00                 | 5.00        | Q           |
|  |                           | CC-12       | Mechanics I  | 6         | 6                | 36                | 2019                     |                      |             |             |
|  | MATHEMATICS               | DSE-1       | Linear Programming   | 4         | 6                | 24                | 2019                     |                      |             |             |
|  |                           | DSE-2       | Probability & Statistics   | 6         | 6                | 36                | 2019                     |                      |             |             |
| VI   | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis   | 8         | 6                | 48                | 2020                     | 9.25                 | 9.25        | Q           |
|  |                           | CC-14       | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                     |                      |             |             |
|  | MATHEMATICS               | DSE-3       | Group Theory II  | 9         | 6                | 54                | 2020                     |                      |             |             |
|  |                           | DSE-4       | Mechanics II   | 10        | 6                | 60                | 2020                     |                      |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : 5.67  |                           |             |  |           |                  |                   | Letter Grade in CGPA : B |                      | Result : Q  |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : 5.79 |                           |             |  |           |                  |                   |                          |                      |             |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
|  | CGPA               | Letter Grade    | CGPA         | Letter Grade |   |
| CC – Core Course                             |                    |                 |              |              | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: NURSELINA ISLAM

Honours: MATHEMATICS

Roll No. 170331000074

| Semester No.   | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year      | SGPA on the basis of |             | Result Code |
|--|---------------------------|-------------|--|-----------|------------------|-------------------|---------------------------|----------------------|-------------|-------------|
|  |                           |             |  |           |                  |                   |                           | CCs & DSEs           | All Courses |             |
| I  | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2018                      | 4.50                 | 5.18        | Q           |
|  |                           | CC-2        | Algebra  | 5         | 6                | 30                | 2018                      |                      |             |             |
|  | CHEMISTRY                 | GE-1        | Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons | 6         | 6                | 36                | 2017                      |                      |             |             |
|  | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                      |                      |             |             |
| II   | MATHEMATICS               | CC-3        | Real Analysis  | 7         | 6                | 42                | 2020                      | 7.00                 | 7.20        | Q           |
|  |                           | CC-4        | Differential Equations and Vector Calculus   | 7         | 6                | 42                | 2020                      |                      |             |             |
|  | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements                               | 7         | 6                | 42                | 2018                      |                      |             |             |
|  | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                      |                      |             |             |
| III  | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces   | 5         | 6                | 30                | 2019                      | 5.00                 | 5.23        | Q           |
|  |                           | CC-6        | Group Theory I   | 4         | 6                | 24                | 2019                      |                      |             |             |
|  |                           | CC-7        | Numerical Methods  | 6         | 6                | 36                | 2018                      |                      |             |             |
|  | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics  | 5         | 6                | 30                | 2018                      |                      |             |             |
|  | MATHEMATICS               | SEC-1       | Logic and Sets   | 8         | 2                | 16                | 2018                      |                      |             |             |
| IV   | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions  | 7         | 6                | 42                | 2019                      | 5.33                 | 5.77        | Q           |
|  |                           | CC-9        | Multivariate Calculus  | 4         | 6                | 24                | 2019                      |                      |             |             |
|  |                           | CC-10       | Ring Theory and Linear Algebra I   | 5         | 6                | 30                | 2019                      |                      |             |             |
|  | PHYSICS                   | GE-4        | Waves and Optics   | 6         | 6                | 36                | 2019                      |                      |             |             |
|  | MATHEMATICS               | SEC-2       | Graph Theory   | 9         | 2                | 18                | 2019                      |                      |             |             |
| V  | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications  | 5         | 6                | 30                | 2019                      | 4.75                 | 4.75        | Q           |
|  |                           | CC-12       | Mechanics I  | 5         | 6                | 30                | 2019                      |                      |             |             |
|  | MATHEMATICS               | DSE-1       | Linear Programming   | 4         | 6                | 24                | 2019                      |                      |             |             |
|  |                           | DSE-2       | Probability & Statistics   | 5         | 6                | 30                | 2019                      |                      |             |             |
| VI   | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis   | 10        | 6                | 60                | 2020                      | 10.00                | 10.00       | Q           |
|  |                           | CC-14       | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                      |                      |             |             |
|  | MATHEMATICS               | DSE-3       | Project Work   | 10        | 6                | 60                | 2020                      |                      |             |             |
|  |                           | DSE-4       | Mechanics II   | 10        | 6                | 60                | 2020                      |                      |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : 6.28  |                           |             |  |           |                  |                   | Letter Grade in CGPA : B+ |                      | Result : Q  |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : 6.32 |                           |             |  |           |                  |                   |                           |                      |             |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

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**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: SUDIPTA BHATTACHARYA

Honours: MATHEMATICS

Roll No. 170331000125

| Semester No.  | Subject                   | Course Code  | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|--------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |              |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1         | Calculus, Geometry & Differential Equations  | 6         | 6                | 36                | 2017                   | 5.50                 | 5.64         | Q           |
|   |                           | CC-2         | Algebra  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1         | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1       | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3         | Real Analysis  | 7         | 6                | 42                | 2018                   | 6.50                 | 6.70         | Q           |
|   |                           | CC-4         | Differential Equations and Vector Calculus   | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-2         | Electricity and Magnetism  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2       | Bengali  | 10        | 2                | 20                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5         | Theory of Real Functions & Introduction to Metric Spaces                                       | NA        | 6                | NA                |                        |                      |              | SNC         |
|   |                           | CC-6         | Group Theory I   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   |                           | CC-7         | Numerical Methods  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-3         | Chemical Energetic, Equilibria, Organic Chemistry  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1        | Logic and Sets   | 8         | 2                | 16                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8         | Riemann Integration and Series of Functions  | 6         | 6                | 36                | 2019                   | 4.67                 | 5.31         | Q           |
|   |                           | CC-9         | Multivariate Calculus  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | CC-10        | Ring Theory and Linear Algebra I   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4         | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 6         | 6                | 36                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory | 9  | 2         | 18               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11        | Partial Differential Equations and Applications  | 5         | 6                | 30                | 2019                   | 5.00                 | 5.00         | Q           |
|   |                           | CC-12        | Mechanics I  | 5         | 6                | 30                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1        | Linear Programming   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | DSE-2        | Probability & Statistics   | 6         | 6                | 36                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13        | Metric Spaces and Complex Analysis   | 10        | 6                | 60                | 2020                   | 10.00                | 10.00        | Q           |
|   |                           | CC-14        | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3        | Project Work   | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4        | Mechanics II   | 10        | 6                | 60                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |              |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |              |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs





**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: KRISHNENDU PAL

Honours: MATHEMATICS

Roll No. 170340100038

| Semester No.  | Subject                   | Course Code    | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|----------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |                |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1           | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2017                   |                      |              | SNC         |
|   |                           | CC-2           | Algebra  | NA        | 6                | NA                |                        |                      |              |             |
|   | PHYSICS                   | GE-1           | Mechanics  | 6         | 6                | 36                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1         | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3           | Real Analysis  | 4         | 6                | 24                | 2018                   | 5.00                 | 5.80         | Q           |
|   |                           | CC-4           | Differential Equations and Vector Calculus   | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-2           | Electricity and Magnetism  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2         | Bengali  | 7         | 2                | 14                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5           | Theory of Real Functions & Introduction to Metric Spaces                                       | 4         | 6                | 24                | 2018                   |                      |              | SNC         |
|   |                           | CC-6           | Group Theory I   | NA        | 6                | NA                |                        |                      |              |             |
|   |                           | CC-7           | Numerical Methods  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-3           | Chemical Energetic, Equilibria, Organic Chemistry  | 7         | 6                | 42                | 2018                   |                      |              |             |
| MATHEMATICS   | SEC-1                     | Logic and Sets | 6  | 2         | 12               | 2018              |                        |                      |              |             |
| IV  | MATHEMATICS               | CC-8           | Riemann Integration and Series of Functions  | 6         | 6                | 36                | 2019                   | 5.67                 | 5.92         | Q           |
|   |                           | CC-9           | Multivariate Calculus  | 6         | 6                | 36                | 2019                   |                      |              |             |
|   |                           | CC-10          | Ring Theory and Linear Algebra I   | 5         | 6                | 30                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4           | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 7         | 6                | 42                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory   | 5  | 2         | 10               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11          | Partial Differential Equations and Applications  | 6         | 6                | 36                | 2019                   |                      |              | SNC         |
|   |                           | CC-12          | Mechanics I  | NA        | 6                | NA                |                        |                      |              |             |
|   | MATHEMATICS               | DSE-1          | Linear Programming   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | DSE-2          | Probability & Statistics   | 5         | 6                | 30                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13          | Metric Spaces and Complex Analysis   | 9         | 6                | 54                | 2020                   | 9.50                 | 9.50         | Q           |
|   |                           | CC-14          | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3          | Group Theory II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4          | Project Work   | 9         | 6                | 54                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |                |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |                |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: KUNTAL GHOSH

Honours: MATHEMATICS

Roll No. 170340100039

| Semester No.  | Subject                   | Course Code  | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|--------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |              |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1         | Calculus, Geometry & Differential Equations  | 6         | 6                | 36                | 2017                   | 5.50                 | 5.45         | Q           |
|   |                           | CC-2         | Algebra  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1         | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1       | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3         | Real Analysis  | 7         | 6                | 42                | 2018                   | 6.50                 | 7.20         | Q           |
|   |                           | CC-4         | Differential Equations and Vector Calculus   | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-2         | Electricity and Magnetism  | 8         | 6                | 48                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2       | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5         | Theory of Real Functions & Introduction to Metric Spaces                                       | NA        | 6                | NA                |                        |                      |              | SNC         |
|   |                           | CC-6         | Group Theory I   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   |                           | CC-7         | Numerical Methods  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-3         | Chemical Energetic, Equilibria, Organic Chemistry  | 8         | 6                | 48                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1        | Logic and Sets   | 7         | 2                | 14                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8         | Riemann Integration and Series of Functions  | 6         | 6                | 36                | 2019                   | 7.00                 | 6.69         | Q           |
|   |                           | CC-9         | Multivariate Calculus  | 7         | 6                | 42                | 2019                   |                      |              |             |
|   |                           | CC-10        | Ring Theory and Linear Algebra I   | 8         | 6                | 48                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4         | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 6         | 6                | 36                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory | 6  | 2         | 12               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11        | Partial Differential Equations and Applications  | 6         | 6                | 36                | 2019                   | 5.25                 | 5.25         | Q           |
|   |                           | CC-12        | Mechanics I  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1        | Linear Programming   | 6         | 6                | 36                | 2019                   |                      |              |             |
|   |                           | DSE-2        | Probability & Statistics   | 5         | 6                | 30                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13        | Metric Spaces and Complex Analysis   | 9         | 6                | 54                | 2020                   | 9.25                 | 9.25         | Q           |
|   |                           | CC-14        | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3        | Group Theory II  | 9         | 6                | 54                | 2020                   |                      |              |             |
|   |                           | DSE-4        | Project Work   | 9         | 6                | 54                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |              |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |              |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: SOUGATA PAL

Honours: MATHEMATICS

Roll No. 170340100114

| Semester No.  | Subject                   | Course Code  | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|--------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |              |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1         | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2017                   | 4.00                 | 4.64         | Q           |
|   |                           | CC-2         | Algebra  | 4         | 6                | 24                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1         | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1       | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3         | Real Analysis  | 5         | 6                | 30                | 2018                   | 5.00                 | 5.70         | Q           |
|   |                           | CC-4         | Differential Equations and Vector Calculus   | 5         | 6                | 30                | 2019                   |                      |              |             |
|   | PHYSICS                   | GE-2         | Electricity and Magnetism  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2       | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5         | Theory of Real Functions & Introduction to Metric Spaces                                       | 4         | 6                | 24                | 2019                   | SNC                  |              |             |
|   |                           | CC-6         | Group Theory I   | NA        | 6                | NA                |                        |                      |              |             |
|   |                           | CC-7         | Numerical Methods  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-3         | Chemical Energetic, Equilibria, Organic Chemistry  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1        | Logic and Sets   | 7         | 2                | 14                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8         | Riemann Integration and Series of Functions  | 6         | 6                | 36                | 2019                   | 5.33                 | 5.77         | Q           |
|   |                           | CC-9         | Multivariate Calculus  | 6         | 6                | 36                | 2019                   |                      |              |             |
|   |                           | CC-10        | Ring Theory and Linear Algebra I   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4         | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 7         | 6                | 42                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory | 6  | 2         | 12               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11        | Partial Differential Equations and Applications  | 6         | 6                | 36                | 2019                   | 4.75                 | 4.75         | Q           |
|   |                           | CC-12        | Mechanics I  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1        | Linear Programming   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | DSE-2        | Probability & Statistics   | 5         | 6                | 30                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13        | Metric Spaces and Complex Analysis   | 8         | 6                | 48                | 2020                   | 8.75                 | 8.75         | Q           |
|   |                           | CC-14        | Ring Theory and Linear Algebra II  | 9         | 6                | 54                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3        | Group Theory II  | 9         | 6                | 54                | 2020                   |                      |              |             |
|   |                           | DSE-4        | Project Work   | 9         | 6                | 54                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |              |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |              |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: ARNAB CHAKRABORTY

Honours: MATHEMATICS

Roll No. 170340400019

| Semester No.  | Subject                   | Course Code  | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|--------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |              |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1         | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2017                   | 4.00                 | 4.64         | Q           |
|   |                           | CC-2         | Algebra  | 4         | 6                | 24                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1         | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1       | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3         | Real Analysis  | 7         | 6                | 42                | 2019                   | 5.50                 | 5.50         | Q           |
|   |                           | CC-4         | Differential Equations and Vector Calculus   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2         | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2       | Bengali  | 10        | 2                | 20                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5         | Theory of Real Functions & Introduction to Metric Spaces                                       | NA        | 6                | NA                |                        | 4.33                 | 5.31         | SNC         |
|   |                           | CC-6         | Group Theory I   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | CC-7         | Numerical Methods  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | PHYSICS                   | GE-3         | Thermal Physics and Statistical Mechanics  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1        | Logic and Sets   | 7         | 2                | 14                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8         | Riemann Integration and Series of Functions  | 4         | 6                | 24                | 2019                   | 4.33                 | 5.31         | Q           |
|   |                           | CC-9         | Multivariate Calculus  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | CC-10        | Ring Theory and Linear Algebra I   | 5         | 6                | 30                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4         | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 7         | 6                | 42                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory | 9  | 2         | 18               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11        | Partial Differential Equations and Applications  | 7         | 6                | 42                | 2019                   | 5.00                 | 5.00         | SNC         |
|   |                           | CC-12        | Mechanics I  | NA        | 6                | NA                |                        |                      |              |             |
|   | MATHEMATICS               | DSE-1        | Linear Programming   | 5         | 6                | 30                | 2019                   |                      |              |             |
|   |                           | DSE-2        | Probability & Statistics   | 5         | 6                | 30                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13        | Metric Spaces and Complex Analysis   | 10        | 6                | 60                | 2020                   | 10.00                | 10.00        | Q           |
|   |                           | CC-14        | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3        | Project Work   | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4        | Mechanics II   | 10        | 6                | 60                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |              |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |              |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: DIPAN DEY

Honours: MATHEMATICS

Roll No. 170340500036

| Semester No.  | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|-------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |             |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations  | 5         | 6                | 30                | 2018                   | 4.50                 | 5.09         | Q           |
|   |                           | CC-2        | Algebra  | 4         | 6                | 24                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1        | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3        | Real Analysis  | 4         | 6                | 24                | 2018                   | 4.50                 | 5.80         | Q           |
|   |                           | CC-4        | Differential Equations and Vector Calculus   | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2      | Bengali  | 10        | 2                | 20                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces                                       | NA        | 6                | NA                |                        |                      |              | SNC         |
|   |                           | CC-6        | Group Theory I   | 5         | 6                | 30                | 2018                   |                      |              |             |
|   |                           | CC-7        | Numerical Methods  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1       | Logic and Sets   | 10        | 2                | 20                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions  | 4         | 6                | 24                | 2019                   | 4.00                 | 5.08         | Q           |
|   |                           | CC-9        | Multivariate Calculus  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | CC-10       | Ring Theory and Linear Algebra I   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4        | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | MATHEMATICS               | SEC-2       | Graph Theory   | 9         | 2                | 18                | 2019                   |                      |              |             |
| V   | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications  | 5         | 6                | 30                | 2019                   |                      |              | SNC         |
|   |                           | CC-12       | Mechanics I  | NA        | 6                | NA                |                        |                      |              |             |
|   | MATHEMATICS               | DSE-1       | Linear Programming   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | DSE-2       | Probability & Statistics   | 4         | 6                | 24                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis   | 9         | 6                | 54                | 2020                   | 9.00                 | 9.00         | Q           |
|   |                           | CC-14       | Ring Theory and Linear Algebra II  | 9         | 6                | 54                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3       | Group Theory II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4       | Mechanics II   | 8         | 6                | 48                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |             |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |             |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: KUHELI GHOSH

Honours: MATHEMATICS

Roll No. 170340900059

| Semester No.   | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year     | SGPA on the basis of |             | Result Code |
|--|---------------------------|-------------|--|-----------|------------------|-------------------|--------------------------|----------------------|-------------|-------------|
|  |                           |             |  |           |                  |                   |                          | CCs & DSEs           | All Courses |             |
| I  | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations  | 7         | 6                | 42                | 2017                     | 6.50                 | 7.00        | Q           |
|  |                           | CC-2        | Algebra  | 6         | 6                | 36                | 2017                     |                      |             |             |
|  | CHEMISTRY                 | GE-1        | Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons | 8         | 6                | 48                | 2017                     |                      |             |             |
|  | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                     |                      |             |             |
| II   | MATHEMATICS               | CC-3        | Real Analysis  | 7         | 6                | 42                | 2018                     | 7.50                 | 8.10        | Q           |
|  |                           | CC-4        | Differential Equations and Vector Calculus   | 8         | 6                | 48                | 2018                     |                      |             |             |
|  | PHYSICS                   | GE-2        | Electricity and Magnetism  | 9         | 6                | 54                | 2018                     |                      |             |             |
|  | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                     |                      |             |             |
| III  | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces   | 5         | 6                | 30                | 2018                     | 5.33                 | 5.85        | Q           |
|  |                           | CC-6        | Group Theory I   | 4         | 6                | 24                | 2019                     |                      |             |             |
|  |                           | CC-7        | Numerical Methods  | 7         | 6                | 42                | 2018                     |                      |             |             |
|  | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics  | 6         | 6                | 36                | 2018                     |                      |             |             |
|  | MATHEMATICS               | SEC-1       | Logic and Sets   | 10        | 2                | 20                | 2018                     |                      |             |             |
| IV   | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions  | 5         | 6                | 30                | 2019                     | 7.00                 | 7.23        | Q           |
|  |                           | CC-9        | Multivariate Calculus  | 6         | 6                | 36                | 2019                     |                      |             |             |
|  |                           | CC-10       | Ring Theory and Linear Algebra I   | 10        | 6                | 60                | 2019                     |                      |             |             |
|  | CHEMISTRY                 | GE-4        | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry                               | 8         | 6                | 48                | 2019                     |                      |             |             |
|  | MATHEMATICS               | SEC-2       | Graph Theory   | 7         | 2                | 14                | 2019                     |                      |             |             |
| V  | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications  | 8         | 6                | 48                | 2019                     | 8.00                 | 8.00        | Q           |
|  |                           | CC-12       | Mechanics I  | 7         | 6                | 42                | 2019                     |                      |             |             |
|  | MATHEMATICS               | DSE-1       | Point Set Topology   | 7         | 6                | 42                | 2019                     |                      |             |             |
|  |                           | DSE-2       | Probability & Statistics   | 10        | 6                | 60                | 2019                     |                      |             |             |
| VI   | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis   | 10        | 6                | 60                | 2020                     | 10.00                | 10.00       | Q           |
|  |                           | CC-14       | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                     |                      |             |             |
|  | MATHEMATICS               | DSE-3       | Group Theory II  | 10        | 6                | 60                | 2020                     |                      |             |             |
|  |                           | DSE-4       | Project Work   | 10        | 6                | 60                | 2020                     |                      |             |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs : 7.61  |                           |             |  |           |                  |                   | Letter Grade in CGPA : A |                      | Result : Q  |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : 7.66 |                           |             |  |           |                  |                   |                          |                      |             |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: SANJIB KUMAR PAL

Honours: MATHEMATICS

Roll No. 170340900123

| Semester No.  | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|-------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |             |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations  | 5         | 6                | 30                | 2017                   | 5.00                 | 6.18         | Q           |
|   |                           | CC-2        | Algebra  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | CHEMISTRY                 | GE-1        | Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons | 8         | 6                | 48                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3        | Real Analysis  | 5         | 6                | 30                | 2018                   | 5.00                 | 6.00         | Q           |
|   |                           | CC-4        | Differential Equations and Vector Calculus   | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-2        | Electricity and Magnetism  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces   | 4         | 6                | 24                | 2018                   | 4.67                 | 5.38         | SNC         |
|   |                           | CC-6        | Group Theory I   | NA        | 6                | NA                |                        |                      |              |             |
|   |                           | CC-7        | Numerical Methods  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1       | Logic and Sets   | 7         | 2                | 14                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions  | 4         | 6                | 24                | 2019                   | 4.67                 | 5.38         | Q           |
|   |                           | CC-9        | Multivariate Calculus  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | CC-10       | Ring Theory and Linear Algebra I   | 6         | 6                | 36                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4        | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry                               | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | MATHEMATICS               | SEC-2       | Graph Theory   | 7         | 2                | 14                | 2019                   |                      |              |             |
| V   | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications  | 5         | 6                | 30                | 2019                   | 5.00                 | 5.00         | Q           |
|   |                           | CC-12       | Mechanics I  | 6         | 6                | 36                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1       | Point Set Topology   | 5         | 6                | 30                | 2019                   |                      |              |             |
|   |                           | DSE-2       | Probability & Statistics   | 4         | 6                | 24                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis   | 9         | 6                | 54                | 2020                   | 9.50                 | 9.50         | Q           |
|   |                           | CC-14       | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3       | Group Theory II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4       | Project Work   | 9         | 6                | 54                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |             |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |             |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: **KOUSHIK JANA**Honours: **MATHEMATICS**Roll No. **170341100024**

| Semester No.  | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|-------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |             |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2019                   | 4.00                 | 5.64         | Q           |
|   |                           | CC-2        | Algebra  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-1        | Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons | 8         | 6                | 48                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3        | Real Analysis  | 4         | 6                | 24                | 2018                   | 4.00                 | 5.40         | Q           |
|   |                           | CC-4        | Differential Equations and Vector Calculus   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements                               | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces   | 4         | 6                | 24                | 2018                   | 4.33                 | 5.15         | Q           |
|   |                           | CC-6        | Group Theory I   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | CC-7        | Numerical Methods  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1       | Logic and Sets   | 7         | 2                | 14                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions  | 4         | 6                | 24                | 2019                   | 5.67                 | 5.31         | Q           |
|   |                           | CC-9        | Multivariate Calculus  | 6         | 6                | 36                | 2019                   |                      |              |             |
|   |                           | CC-10       | Ring Theory and Linear Algebra I   | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | PHYSICS                   | GE-4        | Waves and Optics   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | MATHEMATICS               | SEC-2       | Graph Theory   | 6         | 2                | 12                | 2019                   |                      |              |             |
| V   | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications  | 4         | 6                | 24                | 2019                   | SNC                  |              |             |
|   |                           | CC-12       | Mechanics I  | NA        | 6                | NA                |                        |                      |              |             |
|   | MATHEMATICS               | DSE-1       | Linear Programming   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | DSE-2       | Probability & Statistics   | NA        | 6                | NA                |                        |                      |              |             |
| VI  | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis   | 9         | 6                | 54                | 2020                   | 9.75                 | 9.75         | Q           |
|   |                           | CC-14       | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3       | Group Theory II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4       | Project Work   | 10        | 6                | 60                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |             |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |             |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs





**THE UNIVERSITY OF BURDWAN**  
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**GRADE CARD**

Name: **ARIJIT GHOSH**Honours: **MATHEMATICS**Roll No. **170341300007**

| Semester No.  | Subject                   | Course Code  | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|--------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |              |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1         | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2017                   | 4.00                 | 4.36         | Q           |
|   |                           | CC-2         | Algebra  | 4         | 6                | 24                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1         | Mechanics  | 4         | 6                | 24                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1       | Fundamentals of Environmental Studies  | 6         | 4                | 24                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3         | Real Analysis  | 5         | 6                | 30                | 2018                   | 5.00                 | 6.30         | Q           |
|   |                           | CC-4         | Differential Equations and Vector Calculus   | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2         | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 8         | 6                | 48                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2       | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5         | Theory of Real Functions & Introduction to Metric Spaces                                       | 5         | 6                | 30                | 2018                   | 5.67                 | 5.85         | SNC         |
|   |                           | CC-6         | Group Theory I   | NA        | 6                | NA                |                        |                      |              |             |
|   |                           | CC-7         | Numerical Methods  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3         | Thermal Physics and Statistical Mechanics  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1        | Logic and Sets   | 5         | 2                | 10                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8         | Riemann Integration and Series of Functions  | 4         | 6                | 24                | 2019                   | 5.67                 | 5.85         | Q           |
|   |                           | CC-9         | Multivariate Calculus  | 5         | 6                | 30                | 2019                   |                      |              |             |
|   |                           | CC-10        | Ring Theory and Linear Algebra I   | 8         | 6                | 48                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4         | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 6         | 6                | 36                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory | 7  | 2         | 14               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11        | Partial Differential Equations and Applications  | 6         | 6                | 36                | 2019                   | 5.67                 | 5.85         | SNC         |
|   |                           | CC-12        | Mechanics I  | 5         | 6                | 30                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1        | Linear Programming   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | DSE-2        | Probability & Statistics   | NA        | 6                | NA                |                        |                      |              |             |
| VI  | MATHEMATICS               | CC-13        | Metric Spaces and Complex Analysis   | 10        | 6                | 60                | 2020                   | 10.00                | 10.00        | Q           |
|   |                           | CC-14        | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3        | Group Theory II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4        | Mechanics II   | 10        | 6                | 60                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |              |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |              |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: SOMNATH KARMAKAR

Honours: MATHEMATICS

Roll No. 170341300065

| Semester No.  | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|-------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |             |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations  | 4         | 6                | 24                | 2019                   |                      |              | SNC         |
|   |                           | CC-2        | Algebra  | NA        | 6                | NA                |                        |                      |              |             |
|   | PHYSICS                   | GE-1        | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3        | Real Analysis  | 5         | 6                | 30                | 2018                   | 4.50                 | 5.40         | Q           |
|   |                           | CC-4        | Differential Equations and Vector Calculus   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces                                       | 7         | 6                | 42                | 2018                   |                      |              | SNC         |
|   |                           | CC-6        | Group Theory I   | NA        | 6                | NA                |                        |                      |              |             |
|   |                           | CC-7        | Numerical Methods  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics  | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1       | Logic and Sets   | 7         | 2                | 14                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions  | 5         | 6                | 30                | 2019                   | 6.67                 | 6.92         | Q           |
|   |                           | CC-9        | Multivariate Calculus  | 5         | 6                | 30                | 2019                   |                      |              |             |
|   |                           | CC-10       | Ring Theory and Linear Algebra I   | 10        | 6                | 60                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4        | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | MATHEMATICS               | SEC-2       | Graph Theory   | 9         | 2                | 18                | 2019                   |                      |              |             |
| V   | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications  | 5         | 6                | 30                | 2019                   |                      |              | SNC         |
|   |                           | CC-12       | Mechanics I  | 5         | 6                | 30                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1       | Linear Programming   | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | DSE-2       | Probability & Statistics   | NA        | 6                | NA                |                        |                      |              |             |
| VI  | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis   | 10        | 6                | 60                | 2020                   | 10.00                | 10.00        | Q           |
|   |                           | CC-14       | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3       | Group Theory II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4       | Mechanics II   | 10        | 6                | 60                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |             |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |             |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: **ROHAN GHOSH**Honours: **MATHEMATICS**Roll No. **170341600040**

| Semester No.  | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|-------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |             |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations              | 4         | 6                | 24                | 2017                   | 4.00                 | 4.73         | Q           |
|   |                           | CC-2        | Algebra  | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | ELECTRONICS               | GE-1        | Electronic Circuits and PCB Designing                    | 6         | 6                | 36                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies                    | 5         | 4                | 20                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3        | Real Analysis  | 5         | 6                | 30                | 2018                   | 5.00                 | 4.90         | Q           |
|   |                           | CC-4        | Differential Equations and Vector Calculus               | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-2        | Electricity and Magnetism                                | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2      | Bengali  | 7         | 2                | 14                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces | NA        | 6                | NA                |                        |                      |              | SNC         |
|   |                           | CC-6        | Group Theory I   | 7         | 6                | 42                | 2018                   |                      |              |             |
|   |                           | CC-7        | Numerical Methods  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics                | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1       | Logic and Sets   | 8         | 2                | 16                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions              | 5         | 6                | 30                | 2019                   | 5.33                 | 5.69         | Q           |
|   |                           | CC-9        | Multivariate Calculus                                    | 5         | 6                | 30                | 2019                   |                      |              |             |
|   |                           | CC-10       | Ring Theory and Linear Algebra I                         | 6         | 6                | 36                | 2019                   |                      |              |             |
|   | ELECTRONICS               | GE-4        | Communication Systems                                    | 6         | 6                | 36                | 2019                   |                      |              |             |
|   | MATHEMATICS               | SEC-2       | Graph Theory   | 8         | 2                | 16                | 2019                   |                      |              |             |
| V   | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications          | 7         | 6                | 42                | 2019                   | 6.25                 | 6.25         | Q           |
|   |                           | CC-12       | Mechanics I  | 4         | 6                | 24                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1       | Linear Programming                                       | 8         | 6                | 48                | 2019                   |                      |              |             |
|   |                           | DSE-2       | Probability & Statistics                                 | 6         | 6                | 36                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis                       | 10        | 6                | 60                | 2020                   | 10.00                | 10.00        | Q           |
|   |                           | CC-14       | Ring Theory and Linear Algebra II                        | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3       | Group Theory II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   |                           | DSE-4       | Project Work   | 10        | 6                | 60                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |             |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |             |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

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**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: ANUPAM SAMANTA

Honours: MATHEMATICS

Roll No. 170342000007

| Semester No.  | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|-------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |             |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations              | 4         | 6                | 24                | 2017                   | 4.50                 | 5.55         | Q           |
|   |                           | CC-2        | Algebra  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1        | Mechanics  | 6         | 6                | 36                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies                    | 8         | 4                | 32                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3        | Real Analysis  | 5         | 6                | 30                | 2018                   | 6.50                 | 7.20         | Q           |
|   |                           | CC-4        | Differential Equations and Vector Calculus               | 8         | 6                | 48                | 2018                   |                      |              |             |
|   | COMPUTER SCIENCE          | GE-2        | Database Management Systems                              | 8         | 6                | 48                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces | NA        | 6                | NA                |                        |                      |              | SNC         |
|   |                           | CC-6        | Group Theory I   | 4         | 6                | 24                | 2018                   |                      |              |             |
|   |                           | CC-7        | Numerical Methods  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics                | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1       | Logic and Sets   | 5         | 2                | 10                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions              | 4         | 6                | 24                | 2019                   | 4.33                 | 4.85         | Q           |
|   |                           | CC-9        | Multivariate Calculus                                    | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | CC-10       | Ring Theory and Linear Algebra I                         | 5         | 6                | 30                | 2019                   |                      |              |             |
|   | COMPUTER SCIENCE          | GE-4        | Computer System Architecture                             | 6         | 6                | 36                | 2019                   |                      |              |             |
|   | MATHEMATICS               | SEC-2       | Graph Theory   | 6         | 2                | 12                | 2019                   |                      |              |             |
| V   | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications          | 7         | 6                | 42                | 2019                   | 5.00                 | 5.00         | Q           |
|   |                           | CC-12       | Mechanics I  | 5         | 6                | 30                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1       | Linear Programming                                       | 4         | 6                | 24                | 2019                   |                      |              |             |
|   |                           | DSE-2       | Probability & Statistics                                 | 4         | 6                | 24                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis                       | 8         | 6                | 48                | 2020                   | 8.75                 | 8.75         | Q           |
|   |                           | CC-14       | Ring Theory and Linear Algebra II                        | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3       | Group Theory II  | 9         | 6                | 54                | 2020                   |                      |              |             |
|   |                           | DSE-4       | Project Work   | 8         | 6                | 48                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |             |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |             |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

\*Letter Grade in CGPA is awarded on the basis of CCs and DSEs



**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: PUJA ROY

Honours: MATHEMATICS

Roll No. 170342000048

| Semester No.  | Subject                   | Course Code  | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|--------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |              |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1         | Calculus, Geometry & Differential Equations  | 5         | 6                | 30                | 2017                   | 5.00                 | 5.55         | Q           |
|   |                           | CC-2         | Algebra  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1         | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1       | Fundamentals of Environmental Studies  | 8         | 4                | 32                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3         | Real Analysis  | 4         | 6                | 24                | 2018                   | 5.00                 | 6.00         | Q           |
|   |                           | CC-4         | Differential Equations and Vector Calculus   | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2         | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2       | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5         | Theory of Real Functions & Introduction to Metric Spaces                                       | 7         | 6                | 42                | 2018                   |                      |              | SNC         |
|   |                           | CC-6         | Group Theory I   | NA        | 6                | NA                |                        |                      |              |             |
|   |                           | CC-7         | Numerical Methods  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3         | Thermal Physics and Statistical Mechanics  | 7         | 6                | 42                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1        | Logic and Sets   | 6         | 2                | 12                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8         | Riemann Integration and Series of Functions  | 4         | 6                | 24                | 2019                   | 6.67                 | 7.00         | Q           |
|   |                           | CC-9         | Multivariate Calculus  | 8         | 6                | 48                | 2019                   |                      |              |             |
|   |                           | CC-10        | Ring Theory and Linear Algebra I   | 8         | 6                | 48                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4         | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 7         | 6                | 42                | 2019                   |                      |              |             |
| MATHEMATICS   | SEC-2                     | Graph Theory | 10   | 2         | 20               | 2019              |                        |                      |              |             |
| V   | MATHEMATICS               | CC-11        | Partial Differential Equations and Applications  | 10        | 6                | 60                | 2019                   | 7.25                 | 7.25         | Q           |
|   |                           | CC-12        | Mechanics I  | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1        | Linear Programming   | 5         | 6                | 30                | 2019                   |                      |              |             |
|   |                           | DSE-2        | Probability & Statistics   | 7         | 6                | 42                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13        | Metric Spaces and Complex Analysis   | 8         | 6                | 48                | 2020                   | 8.50                 | 8.50         | Q           |
|   |                           | CC-14        | Ring Theory and Linear Algebra II  | 9         | 6                | 54                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3        | Group Theory II  | 8         | 6                | 48                | 2020                   |                      |              |             |
|   |                           | DSE-4        | Project Work   | 9         | 6                | 54                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |              |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |              |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
| DSE – Discipline Specific Elective           | 8 to below 9       | A+ (Excellent)  | 4 to below 5 | P (Pass)     | PNC – Programme Not Cleared [CGPA on the basis of CCs and DSEs.<5 or All semesters not cleared] |
| SEC – Skill Enhancement Course               | 7 to below 8       | A (Very Good)   | Below 4      | F (Fail)     |   |
| AECC – Ability Enhancement Compulsory Course | 6 to below 7       | B+ (Good)       |              |              | NC denotes “Not Computed” due to absence in C1, C2 and C4 as applicable.                        |

**Grade Point Norms:**

|                             |    |                             |                  |
|-----------------------------|----|-----------------------------|------------------|
| 90% to 100%                 | 10 | 80% and above but below 90% | 9                |
| 70% and above but below 80% | 8  | 60% and above but below 70% | 7                |
| 50% and above but below 60% | 6  | 40% and above but below 50% | 5                |
| 35% and above but below 40% | 4  | Below 35%                   | Not Awarded (NA) |

**Percentage Conversion Formula:**

$$= (SGPA \text{ or } CGPA \times 10) - 5.0$$

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**THE UNIVERSITY OF BURDWAN**  
**B.Sc. 3-YEAR DEGREE HONOURS FINAL EXAMINATION 2020 UNDER CBCS**  
**GRADE CARD**

Name: SOUMILI ROY

Honours: MATHEMATICS

Roll No. 170342000075

| Semester No.  | Subject                   | Course Code | Course Title   | Grade (G) | Credit Value (V) | Grade Point (G×V) | Credit Retained Year   | SGPA on the basis of |              | Result Code |
|---|---------------------------|-------------|--|-----------|------------------|-------------------|------------------------|----------------------|--------------|-------------|
|   |                           |             |  |           |                  |                   |                        | CCs & DSEs           | All Courses  |             |
| I   | MATHEMATICS               | CC-1        | Calculus, Geometry & Differential Equations  | 5         | 6                | 30                | 2017                   | 5.00                 | 5.36         | Q           |
|   |                           | CC-2        | Algebra  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | PHYSICS                   | GE-1        | Mechanics  | 5         | 6                | 30                | 2017                   |                      |              |             |
|   | ENVIRONMENTAL STUDIES     | AECC-1      | Fundamentals of Environmental Studies  | 7         | 4                | 28                | 2017                   |                      |              |             |
| II  | MATHEMATICS               | CC-3        | Real Analysis  | 5         | 6                | 30                | 2019                   | 5.00                 | 5.70         | Q           |
|   |                           | CC-4        | Differential Equations and Vector Calculus   | 5         | 6                | 30                | 2018                   |                      |              |             |
|   | CHEMISTRY                 | GE-2        | States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | Communicative English/MIL | AECC-2      | Bengali  | 9         | 2                | 18                | 2018                   |                      |              |             |
| III   | MATHEMATICS               | CC-5        | Theory of Real Functions & Introduction to Metric Spaces                                       | 6         | 6                | 36                | 2018                   |                      |              | SNC         |
|   |                           | CC-6        | Group Theory I   | NA        | 6                | NA                |                        |                      |              |             |
|   |                           | CC-7        | Numerical Methods  | 4         | 6                | 24                | 2018                   |                      |              |             |
|   | PHYSICS                   | GE-3        | Thermal Physics and Statistical Mechanics  | 6         | 6                | 36                | 2018                   |                      |              |             |
|   | MATHEMATICS               | SEC-1       | Logic and Sets   | 5         | 2                | 10                | 2018                   |                      |              |             |
| IV  | MATHEMATICS               | CC-8        | Riemann Integration and Series of Functions  | 5         | 6                | 30                | 2019                   | 6.33                 | 6.54         | Q           |
|   |                           | CC-9        | Multivariate Calculus  | 6         | 6                | 36                | 2019                   |                      |              |             |
|   |                           | CC-10       | Ring Theory and Linear Algebra I   | 8         | 6                | 48                | 2019                   |                      |              |             |
|   | CHEMISTRY                 | GE-4        | Solution Phase Equilibria, Conductance, Electrochemistry, Analytical & Environmental Chemistry | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | MATHEMATICS               | SEC-2       | Graph Theory   | 7         | 2                | 14                | 2019                   |                      |              |             |
| V   | MATHEMATICS               | CC-11       | Partial Differential Equations and Applications  | 10        | 6                | 60                | 2019                   | 7.50                 | 7.50         | Q           |
|   |                           | CC-12       | Mechanics I  | 7         | 6                | 42                | 2019                   |                      |              |             |
|   | MATHEMATICS               | DSE-1       | Linear Programming   | 5         | 6                | 30                | 2019                   |                      |              |             |
|   |                           | DSE-2       | Probability & Statistics   | 8         | 6                | 48                | 2019                   |                      |              |             |
| VI  | MATHEMATICS               | CC-13       | Metric Spaces and Complex Analysis   | 9         | 6                | 54                | 2020                   | 9.00                 | 9.00         | Q           |
|   |                           | CC-14       | Ring Theory and Linear Algebra II  | 10        | 6                | 60                | 2020                   |                      |              |             |
|   | MATHEMATICS               | DSE-3       | Group Theory II  | 9         | 6                | 54                | 2020                   |                      |              |             |
|   |                           | DSE-4       | Project Work   | 8         | 6                | 48                | 2020                   |                      |              |             |
| CGPA (Cumulative Grade Point Average) on the basis of CCs & DSEs :  |                           |             |  |           |                  |                   | Letter Grade in CGPA : |                      | Result : PNC |             |
| CGPA (Cumulative Grade Point Average) on the basis of All Courses : |                           |             |  |           |                  |                   |                        |                      |              |             |

Date of Publication of Result : 29.10.2020

$$SGPA (S) = \frac{\sum_{i=1}^n (G_i \times V_i)}{\sum_{i=1}^n V_i} \quad CGPA = \frac{\sum_{i=1}^N (V_i \times S_i)}{\sum_{i=1}^N V_i}$$

*Anindya Zyoti Pal*  
 Controller of Examinations

| Course Types :                               | CGPA Letter Grades |                 |              |              | Result Codes:   |
|--|--------------------|-----------------|--------------|--------------|---|
| CC – Core Course                             | CGPA               | Letter Grade    | CGPA         | Letter Grade | Q - Qualified   |
| GE – Generic Elective                        | 9 and above        | O (Outstanding) | 5 to below 6 | B (Average)  | SNC – Semester Not Cleared  |
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