Presidency University Admission Test
Model Questions
Department of Biological Science

The criteria of the admission test are given here.

- There will be 100 multiple choice questions (MCQ) with 4 options.; Time – 2 h
- Answers are to be given on OMR sheet.
- Each MCQ is of 1 mark.
- There will be negative marking.
- One loose sheet will be provided with each OMR sheet.
- The proportional presentation of the questions from the different discipline will be as follows:
  Biology: 50 marks
  Physics: 20 marks
  Chemistry: 20 marks
  Mathematics: 10 marks

Biology

1. Chlorophyll absorbs light principally in the _____ wavelengths.

    a.   blue and green
    b.   green and violet
    c.   blue and violet
    d.   violet and green

2. Which one of the following statements is correct with respect to immunity?

    a. Antibodies are protein molecules, each of which has four light chains
    b. The antibodies against small pox pathogen are produced by T-lymphocytes
    c. Preformed antibodies need to be injected to treat the bite by a viper snake
    d. Rejection of a kidney graft is the function of B-lymphocytes

3. If a double helical DNA molecule contains 30% adenine, then what is the percentage of guanine?

    a.30%

    b.20%

    c.50%

    d.40%

4. Secretin hormone is released from

   a. B cells

   b. S cells

   c. d cells

   d. none of the above

Physics

1. An aeroplane flying horizontally at 360 Km/hr releases a bomb. If its height above the ground was 490m, how far horizontally ahead of the point of release will the bomb strike the ground?
    a. 490m

    b. 1 km

    c. 360 Km

    d. 130 m
2. In thermodynamics, a closed system may be define as
    a. That can not exchange both heat and also mass with its surroundings
    b. That can exchange heat but not mass with its surroundings
    c. That can exchange both heat and mass with its surroundings
    d. None of the above

Chemistry

1. Sodium acetate (CH3COONa) is a salt. Its aquous solution will be

    a. Acidic

    b. Basic

    c. Neutral

    d. Strongly acidic

2. The correct order of decreasing acid strength of trichloroacetic acid (a), trifluoroacetic

    acid (b), acetic acid (c) and formic acid (d) is

A. a > b > c > d
B. a > c > b > d
C. b > a > d > c
D. b > d > c > a

Mathematics

1   Two dice are thrown together. What is the probability that the sum of the numbers on the two faces is divisible by 4 or 6?

a.   7/18

b.   5/18

c. 5/12

d. 1/10