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DEPARTMENT OF GEOGRAPHY
M.A/ M.Sc. ENTRANCE EXAMINATION, 2013

QUESTION BOOKLET NO – (B)

TIME: 1HR

FULL MARKS: 100

- The rainfall hyetograph is the graph drawn between -
a. Cumulative rainfall and time b. Rainfall intensity and time c. Rainfall depth and area
d. Cumulative rainfall with time
- Which one of the following has the highest infiltration capacity-
 a. Forest land b. Grazed pasture c. Concrete pavement in air port d. Rocky outcrop
- Labrador current is-
a. A warm current b. A cold current c. A temperate current d. None of the above
- Weber's material index refers to
a. Cost of raw materials and cost of finished products b. Cost of raw materials and Weight of raw materials
c. Cost of finished products and Weight of finished products d. Weight of raw materials and Weight of finished products
- The scale of the toposheet No 73 E is-
a. 1:50000 b. 1:100000 c. 1:250000 d. 1:1000000
- In closed traverse survey closing error is distributed by-
a. Franklin's method b. Bowditch's method c. Smith's method d. Anderson's method
- In which year did Von Thunen develop the model of agricultural land use Zonation?
a. 1817 b. 1826 c. 1850 d. 1847
- Which one of the following is an example of footloose industry?
a. Paper industry b. Manufacturing of electronic components c. Cement industry d. Aluminium industry
- The scale of a map is 10 cm = 5 km. Enlarge the map 4 times. The new R.F. will be -
a. 1:20,000,000 b. 1:2,500 c. 1:20,000,000 d. 1:100,000
- The instrument used for enlarging or reducing a map is called -
a. Clinograph b. Pantograph c. Barograph d. Planimeter
- A geological map contains bed of different geological ages that differ in attitude, lithology and succession; the discordance between any 2 series of formation is called -
a. Lithology b. True Dip c. Geometric Plane d. Unconformity

12. The mature stage of thunderstorm is characterized by
 a. strong updraft and downdraft b. lack of electrical charges c. end of precipitation d. lack of ice crystals
13. What is photosphere?
 a. the outer surface of the Sun b. the inner surface of the Sun c. a part of the atmosphere
 d. none of these
14. The bars that form in straight channel segments within the curves of the meandering thalweg are called -
 a. Point bar b. Alternating bar c. Braid bar d. Cusate bar
15. The formula for the measurement of surface area of the globe is -
 a. $2\pi R$ b. $2\pi R^2$ c. $4\pi R$ d. $4\pi R^2$
16. In whose model of landscape development it is said that "the landscape and the processes that form it are part of an open system which is in steady state of balance"
 a. Hack b. Penck c. Davis d. King
17. In a geological map when the contour intersects the same bedding plane more than once, a straight line drawn through these points of intersection gives the ----- for that bedding plane at that contour elevation.
 a. Strike Line b. Angle of Dip c. Throw d. Unconformity
18. The master consequent stream flows in the syncline from higher slopes to the lesser gradient. The streams originating from the flanks of the anticlines join the master consequents as tributary streams known as -
 a. Transverse Consequent b. Subsequentc. c. Resequent d. Obsequent
19. The pyramid of biomass is available in some
 a. grassland ecosystem b. pond ecosystem c. parasitic ecosystem d. forest ecosystem
20. The transfer of heat through the molecules of matter in any body is called -
 a. Convection b. Conduction c. Radiation d. none of these
21. Trophic level are formed by
 a. only plants b. only animals c. only carnivores d. organisms linked in food chain
22. Which of the following is the most common form of precipitation?
 a. Snow b. Sleet c. Rainfall d. Hail
23. Which among the following shows correct order according to increasing size
 a. clay, colloids, silt, sand b. clay, colloids, sand, silt c. colloids, clay, silt, sand
 d. colloids, clay, sand, silt
24. Ecological relations of individual species in a given ecosystem are called
 a. Synecology b. Ecology c. Biology d. Autecology

25. The term Geopolitics was first introduced by
 a. R. Kjellen b. F. Ratzel c. H.J. Mackinder d. R. Percy
26. Which one of the following is not relevant in the context of social well-being?
 a. Provision of housing b. Improved accessibility to health services c. Provision of educational facilities
 d. Entry of multinational companies in developing countries.
27. A cyclone is a system of wind, in which the wind blows spirally-
 a. Towards the centre of low pressure b. Towards the central region of high pressure
 c. Towards a region of low pressure d. Outwards from a central region of high pressure
28. The first step in cultural development was taken place with
 a. Domestication of animals b. Subsistence agriculture c. Transportation by waterways d. Practice of irrigation
29. Which one of the following techniques is the most popular measure of inequalities in the distribution of income?
 a. Lorenz Curve b. Location Quotient c. Population Potential d. None of the above
30. Equally Distributed Income Index is an important parameter for the measurement of
 a. H.D.I. b. G.D.I. c. H.P.I. d. G.E.M.
31. Child woman ratio is expressed by the formula
 a. $(P_{0-4} / P_{15-49}) \times 1000$ b. $(P_{0-4} / P_{15-44}) \times 1000$ c. $(P_{0-4} / P_{15-49}) \times 100$ d. $(P_{0-4} / P_{15-44}) \times 100$
32. Which of the following is not correct?
 a. Multiple Nuclei Theory- C.D Harris And Ullman b. Concentric Zone Theory- Hoyt
 c. Demographic Transition- Trewartha d. Population Resource Region- Zelinsky
33. Dry point settlement is found-
 a. In a drought prone area b. In a desert c. In a flood prone area d. Near a market place
34. The sex ration of India according to the Census of India 2011 is-
 a. 943 b. 934 c. 930 d. 940
35. Which river has its origin at Bara Lacha Pass in Lahul- Spiti part?
 a. Chenab b. Ravi c. Jhelum d. Sutlej
36. The alluvial fans of 'Bhabar' along the foothills of Siwaliks have-
 a. Silty soil b. Clayey soil c. Loamy soil d. Coarse- pebbly soil
37. If the highest value of a distribution is made double, which one of the following measures will remain unchanged
 a. Arithmetic mean b. Median c. Geometric mean d. Harmonic mean
38. The Meghalaya Plateau is separated from the main block of peninsular plateau by a wide gap known as-
 a. Chottanagpur plateau b. Garo- Rajmahal Hills c. Bundelkhand Upland
 d. None of the above

39. Who was the first person to initiate measurement of the earth and try to locate things on the face of the earth?

- a. Anaximander b. Hecataeus c. Homes d. Thales of Miletus

40. The world's first climatic atlas 'Kitab al Ashkal' was prepared by -

- a. Al Baruni b. Al Balkhi c. Ibn Batuta d. Firoj Shah

41. A system is essentially composed of -

- a. A set of elements b. A set of links c. A set of links between the system and its environment
 d. All of these

42. Spatial pattern includes-

- a. Location b. Interaction c. Regions d. All of these

43. Green Muffler is -

- a. A technology for reducing desertification b. A method of afforestation
roadside to reduce pollution d. A technology for reducing river bank erosion
 c. Plantation along

44. Agenda 21 is associated with -

- a. Sustainable agriculture b. Protection and management of oceans
 d. All of the above c. Biodiversity

45. In the year 2011 Global Hunger Index (GHI) reported India's rank in terms of hunger situation as -

- a. 15th b. 2nd c. 20th d. 100th

46. In an electromagnetic spectrum the wavelength of the visible band ranges from-

- a. 0.5 - 0.7 μ m b. 0.4 - 0.7 μ m c. 0.6 - 0.9 μ m d. 0.54 - 0.72 μ m

47. NIMBUS satellite was launched in October 1978 to monitor -

- a. Snow b. Ocean c. Climate d. Pollution

48. Most of the remote sensing satellites that study earth resources are placed in _____ orbits.

- a. Geo - stationary b. Sun - synchronous c. Non - polar d. Either Geo - stationary or Non - polar

49. Among the following which one is not a measure of dispersion?

- a. Mean deviation b. Standard deviation c. Range d. none of these

50. A sampling select the population at regular intervals and it gives a uniform coverage of the population is known as

- a. Stratified Sampling b. Simple Random Sampling c. Aerial Random Sampling
 d. Systematic Sampling
