

THE INDIAN GEOGRAPHICAL SOCIETY

Department of Geography, University of Madras, Chennai – 600 005

Talent Test – Young Geographer -2011

PROF. A. RAMESH AWARD

With the Total Cash Prize of Rs. 15,000/-

(First Prize: Rs. 7,500/-, Second Prize: Rs. 5,000/- & Third Prize: Rs.2,500)

Duration: 1 Hour 30 Minutes

Date: 07-03-2011

Maximum Marks: 100

INSTRUCTIONS

- Enter the Response on Answer Sheet with only ball pen (Blue or Black)
- From five alternative answers (a) (b) (c) (d) (e) for each of the multiple-choice questions, the correct answer has to be shaded appropriately.

Choose the Appropriate Answer:

1. Cumulus clouds are found between ----- altitudes
a) Below 450 m b) 450-2000 m c) 2000 – 7000 m d) 7000 – 13,500m e) Above 13,500 m
2. Which is not an erosional feature of continental glacier?
a) Inselberg b) Cirque c) Aretes d) Comb-ridge e) Horn
3. The polar radius of the earth measures
a) 6,400 km b) 6,357 km c) 6,227 km d) 6,340 km e) 6,780 km
4. What causes the change of seasons?
a) Earth's rotation and revolution b) Earth's revolution c) Earth's revolution and inclination of its axis d) Earth's rotation and inclination of its axis e) None of the above
5. The average distance between the moon and the earth is
a) 384,000 km b) 267,000 km c) 540,000 km d) 576,000 km e) 765,000 km
6. What happens when one crosses 180° longitude from east to west?
a) One gains a day b) One loses a day c) One neither gains nor loses a day but the time changes d) There is no change in time or day e) One gains two days
7. Greenwich Mean Time is ____ IST
a) 5 hr 30min ahead b) 12 hr ahead c) 4 hr 30 min behind
d) 5 hr 30 min behind e) 24 hr behind
8. What is the scale of measurement of earthquake intensity based on the amount of energy released during the earthquake?
a) Rossi-Forriol Scale b) Mercalli scale c) Richter scale d) Beaufort scale e) Metric scale
9. Eskers are associated with
a) Tundra tribes b) Glaciated land form c) Dry vegetation
d) An animal found in the tropical forest e) Aeolian landform
10. In dividing India into physiographic regions who used the terms macro, meso and micro regions?
a) R.L. Singh b) M.B. Pethawala c) O.H. K. Spate d) S.P. Chatterjee e) D.N Wadia

11. Who said that Present is the key to the Past?
a) Hetner b) Davis c) James Hutton d) Penck e) Wegner
12. The concept of Geographical Cycle of Erosion was propounded by
a) Walter Penck b) L.C. King c) W.M. Davis d) J.Hutton e) Carl Ritter
13. The deepest rift valley in the world is
a) Death Valley b) Jordan Valley c) Narmada Valley d) Dead Sea e) African rift valley
14. Which of the following is not a chemical weathering?
a) Oxidation b) Carbonation c) Solution d) Hydration e) None of these
15. Long but narrow and shallow water depressions characterized by sedimentation and subsidence are
a) Continental shelf b) Continental slopes
c) Geosynclines d) Oceanic plains e) Anticlines
16. When was the continental drift theory postulated?
a) 1912 b) 1915 c) 1918 d) 1914 e) 1920
17. Wegner's theory is related with which of the following period?
a) Carboniferous b) Pre-Carboniferous c) Mesozoic d) Paleozoic e) Pre Cambrian
18. How many times Pangaea was broken?
a) 1 b) 2 c) 3 d) 4 e) 6
19. Which of the following is not the part of Gondwana land?
a) Indian Peninsula b) Madagascar c) Australia d) Tibetan plateau e) Sri Lanka
20. How many major plates are found in the Lithosphere?
a) 4 b) 5 c) 6 d) 7 e) 9
21. The formation of Himalayan mountain took place during
a) Pre-Cambrian b) Caledonian c) Hercynian d) Tertiary e) Carboniferous
22. The new folded mountain system is also known
a) Alpine b) Penine c) Alps d) Rocky e) Himalayan
23. Hare Island is made of
a) Sedimentary rock b) Coral reefs c) Metamorphic rock d) Igneous rock e) Volcano
24. The Bist doab is situated between
a) Beas and Sutluj b) Beas and Ravi
c) Ravi and Chenab d) Ganga and Yamuna e) Kosi and Son
25. Kolleru lake is situated in
a) Tamil Nadu b) Andra Pradesh c) Karnataka d) Orissa e) West Bengal
26. The direction of the winter winds in India is
a) NE to SW b) Towards East c) SE to NW d) SW to NE e) Towards West
27. The Normal date of the onset of monsoon in Andaman and Nicobar islands is
a) 20 May b) 25 May c) 28 May d) 1 June e) 5 June
28. A counterclockwise atmospheric circulation in the Northern Hemisphere is known as
a) Cyclone b) Pressure gradient c) Troposphere d) Anticyclone e) Coriolis effect

29. Tornadoes are most likely to occur on
 a) Mid-afternoon b) Dawn c) Noon d) Evening e) Mid-morning
30. Which of the following winds occur at night
 a) Valley & mountain breezes b) Sea & land breezes c) Sea & mountain breezes
 d) Land & valley breezes e) Mountain & land breezes
31. The doldrums are most closely associated with
 a) Polar fronts b) STH c) Rossby waves d) VTR e) ITCZ
32. In the anticyclones of northern hemisphere, the wind movement is
 a) counterclockwise inward b) counterclockwise outward c) clockwise outward
 d) clockwise inward e) None of these
33. The Graticule is
 a) The network of latitudes and longitudes b) The system of directions in a compass c) An instrument for map making
 d) Circle whose plane bisects the earth equally e) Both A and D
34. What is the altitude (km) of most of the satellites placed in a sunsynchronous polar orbit?
 a) 300 to 1,000 b) 1000 to 3000 c) 30,000 to 36,000 d) 2,000 to 6000 e) Below 300
35. Which of the following has been the oldest remote sensing programme?
 a) INSAT b) LANDSAT c) SPOT d) IRS e) ERS
36. Which satellite systems carry LISS sensor?
 a) LANDSAT b) INSAT c) SPOT d) IRS e) ERS
37. Seismic foci at the depth between 250 to 700 km is
 a) Moderate earthquake b) Intermediate earthquake c) Shallow earthquake
 d) Deep focus earthquake e) None of these
38. Which waves are called surface waves?
 a) P waves b) S waves c) L waves d) Pg-SG waves e) Both A and B
39. Who postulated the concept of graded streams?
 a) G.K. Gilbert b) R.C. Flemal c) S. Judson d) W.M. Davis e) None of these
40. Negative change of the base level of erosion is always related to negative change in the sea level is
 a) Eustatic movement b) Plate movement c) Knick point
 d) Vertical movement e) None of these
41. Which river does not make gorge?
 a) Subarnarekha b) Krishna c) Narmada d) Mahanadi e) Chambal
42. Which river forms Loess plain?
 a) Nile b) Tames c) Hwang Ho d) Brahmaputra e) Tigris
43. Which river does not have delta?
 a) Narmada b) Krishna c) Godavari d) Nile e) Cauvery
44. The very much sharpened peaks resembling saw teeth are called?
 a) Col b) Aretes c) Horns d) Cirque e) None of these
45. Bajada is found between
 a) Pediment and playa b) Playa and Hammada c) Pediment and Hammada
 d) Inselberg and Pediment e) None of these

46. The intermontane basins in arid or semi arid areas are called?
 a) Pediments b) Playa c) Bolsons d) Hammada e) Valley
47. A shallow stretch of water that is separated from the open sea by a barrier is called-
 a) Lagoon b) Stack c) Bar d) Ria e) Lake
48. In which coastal area the Rias are found abundantly
 a) Western European b) East Asian c) West American d) West Australian e) East African
49. Which of the following is called the country of calm morning?
 a) China b) Australia c) Korea d) Philippines e) Japan
50. Daily range of temperature is greater in
 a) Coastal areas b) Small islands c) Interior regions d) Mountain submits e) Tundra
51. Where the atmospheric pressure is found maximum?
 a) At the seal level b) At the middle of atmosphere
 c) At the upper atmosphere d) Both B and C e) None of these
52. Ferrel law is related to which of the following subject?
 a) Measurement of the velocity of the wind b) Wind direction
 c) To know the atmospheric pressure d) Cyclone e) None of these
53. The winds blowing in almost the same direction throughout the year are called
 a) Chinook b) Monsoon c) Planetary winds d) Local winds e) Polar winds
54. The unit of Beaufort scale is
 a) Knot b) Horse power c) Hertz d) Pascal e) None of these
55. Roaring forties blow between ____ degrees
 a) 40 – 50 N b) 40 – 50 S c) 45 – 55 N d) 45 – 55 S e) 30 – 40 S
56. Closed isobars are found in
 a) Temperate cyclones b) Tropical cyclones c) Fronts d) Both A and B e) None of these
57. Tropical storms blow in which of the following region
 a) Bay of Bengal b) Arabian sea c) Caribbean sea d) Philippines e) All of these
58. Koppen's climatic scheme is based on
 a) Climate b) Vegetation zones c) Rainfall and Temperature d) Both A and B e) None of these
59. In the Koppen's climatic scheme 'f' stands for occurrence of precipitation -
 a) Throughout the year b) During the summer c) During the winter
 d) During the monsoon e) None of these
60. Which of the following country does not have the Monsoon climate?
 a) Bangladesh b) Sri Lanka c) Myanmar d) Afghanistan e) China
61. Verkhoyansk, the city where lowest temperature of the world, is found in ____ climate
 a) Taiga b) Tundra c) Steppe d) Temperate e) None of these
62. The sequence of ecosystem development in terms of a particular suite of physical and chemical conditions is called
 a) Biome b) Sere c) Climatic climax d) Ecology e) None of these

63. Fifth of June is celebrated as
 a) World environment day b) Darwin's birth day
 c) World health and hygiene day d) World population day e) GIS day
64. Government of India passed the Wild Life (Protection) Act in
 a) 1980 b) 1976 c) 1972 d) 1970 e) 1982
65. Symbol of WWF is
 a) White tiger b) Rhododendron c) Red Panda d) Bear e) Peacock
66. DDT is
 a) Biodegradable pollutant b) Green house gas
 c) Non-degradable pollutant d) Both A and C e) None of the above
67. Radioactive pollution along the Kerala coast is due to ---
 a) Thorium b) Cesium c) Plutonium d) Zinc e) All the above
68. In-T-O map, 'T' represents -
 a) Water bodies b) Land mass c) Heaven d) Both A and B e) None of these
69. Who is the founder of political geography?
 a) Brunches b) Blache c) Ratzel d) Huntington e) Davis
70. Who was the first geographer who first ever divided the world in to 14 natural regions?
 a) Roxby b) Herbertson c) L.D. Stamp d) Whitley e) None of these
71. The high population density in Java Island is due to
 a) Warm Climate b) Heavy rainfall c) Rich volcanic soils d) Monsoon e) All of these
72. Where the ribbon settlements are found?
 a) Kerala b) Gangetic valley c) Malwa Plateau d) Thar Desert e) Mysore plateau
73. Which is the soft wood producing region?
 a) Equatorial b) Sub Polar c) Temperate d) Polar e) None of these
74. The biggest reserves of thorium are in
 a) India b) China c) Russia d) USA e) Germany
75. Stainless steel is made by mixing steel with ____
 a) Nickel b) Chromium c) Manganese d) Cobalt e) Both A and C
76. Which is not included in the operating costs in transport?
 a) Longhaul cost b) Overhead cost c) Transfer cost d) Both A and B e) None of these
77. "Who rules East Europe commands the heartland, who rules the heartland commands the world island, who rules the world island commands the world". Who proposed this statement?
 a) Mackinder b) Blache c) Semple d) Ratzel e) Ritter
78. In the ancient period, the boundaries were developed as the
 a) Frontiers b) Boundary lines c) Natural land forms d) All of these e) None of these
79. In India, which of the following State has the highest scheduled tribe population?
 a) Madhya Pradesh b) Uttar Pradesh c) Himachal Pradesh d) Assam e) Punjab
80. The primitive people who live in Kalahari Desert are known as
 a) Pigmies b) Bantus c) Bushman d) Todas e) Eskimos

81. The original place of the Homo sapiens has been in
a) East Africa b) Central Asia c) Tibet d) Central Mexico e) Asia Minor
82. Which one of the following has no caste in the scheduled category?
a) Nagaland b) Manipur c) Dadra and Nagar Haveli d) Puducherry e) None of these
83. National Atlas and Thematic Mapping Organization is located at
a) Udaipur b) Kolkata c) Hyderabad d) Agra e) Dehra Dun
84. Which State of India has the highest urbanization?
a) Mizoram b) Goa c) Tamil Nadu d) Maharashtra e) Gujarat
85. Nandadevi is located in which part of the Himalayas?
a) Himachal b) Uttranchal c) Nepal d) Sikkim e) Eastern
86. Damodar river rises in
a) Chhota Nagpur b) Naga Hills c) Satpura range d) Vindhyan range e) None of these
87. Which of the following rivers is known for its ravines?
a) Betwa b) Son c) Sindh d) Chambal e) Narmada
88. Ladakh Plateau of Kashmir receives very low rainfall because
a) It is a low region b) It is influenced by the drought area of Kashmir
c) It is rain shadow region of the Himalayas d) Both B and C e) None of these
89. In which of the following states black soils is not found?
a) Maharashtra b) Gujarat c) Andhra Pradesh d) Tamil Nadu e) Bihar
90. Which State is the largest producer of wheat in India?
a) Maharashtra b) Haryana c) Punjab d) Uttar Pradesh e) Bihar
91. According to 2001 census, female population is lowest in
a) Andaman and Nicobar b) Nagaland c) Assam d) Manipur e) Kerala
92. Jet stream is a
a) Warm current b) River c) Upper air westerlies d) Local winds e) Cold current
93. The term "frontogenesis" refers to ____ of front.
a) Decay b) Formation c) Migration d) Occlusion e) Both B and C
94. One of the latest satellites launched by India is known as:
a) IRS 1B b) IRS P6 c) CARTOSAT d) TES e) Oceansat
95. The system of horizontal and vertical lines to describe a surface is called
a) Grid b) Cone c) Projection d) Datum e) Both A and D
96. Map which uses area symbols is called
(a) Isopleth (b) Choropleth (c) Chart (d) Cartogram (e) Star diagram
97. The Salinity of ocean water is measured in terms of
a) Percent b) Per thousand c) Per cubic metre d) Per million e) Nano metre
98. Total Station and GPS are associated with
a) Telecommunication b) Remote sensing c) Web connectivity d) GIS e) Modern Surveying

99. Living vegetation appears _____ on FCC image

- a) Red b) Green c) Blue d) Yellow e) Cyan

100. ISRO head quarters is located at

- a) Thiruvananthapuram b) Dehra Dun c) Kolkata d) Hyderabad e) Bengaluru