

1. The technique that provides the most precise information regarding the elevation of a place:
A) Hachure B) Hill shading
C) Layer tint D) Spot height

2. Which among the following is a map duplicating process?
A) Silk Screen Printing B) Letter press
C) Photogravure D) Lithographic

3. In GIS, which among the following objects are treated as fuzzy entities?
A) Buildings B) Land parcels
C) Agricultural fields D) Soils

4. The smallest unit of data representation in the relational database:
A) Tuple B) Domain C) Files D) Tables

5. “UNION” refers to:
A) Overlaying polygons but keeps only those portions of the first input layer features falling within the second input layer polygon
B) Overlaying polygons and keeps all areas in both layers
C) Overlaying polygons and keeps all input layer features
D) Erases a part of the first input layer using the second input layer

6. The GPS surveying method used to make measurements along a line in open areas:
A) Kinematic B) Stop and go
C) Real-time D) Static

7. Identify the open source GIS software from among the following:
A) ArcGis B) ERDAS C) MAPINFO D) GRASS

8. The number of spectral bands, individual band width and the entire range of electromagnetic spectrum covered by the bands is called
A) Spectral resolution B) Spatial resolution
C) Temporal resolution D) Radiometric resolution

9. Very precise orbital information for each satellite, necessary for precise positioning
A) Almanac data B) Ephemeris data
C) Point data D) Meta data

10. In remote sensing, the process of automatic grouping of pixels with similar spectral characteristics is called
- A) Image multiplication B) Colour space transformation
C) Image fusion D) Clustering
11. Identify the correct sequence in ascending order with respect to the declining area under paddy cultivation.
- A) Ernakulam, Kollam, Thiruvananthapuram, Malappuram
B) Malappuram, Thiruvananthapuram, Kollam, Ernakulam
C) Thiruvananthapuram, Malappuram, Kollam, Ernakulam
D) Malappuram, Kollam, Ernakulam, Thiruvananthapuram
12. Which among the following is **not** a great circle?
- A) The Equator
B) The International date line
C) The Greenwich Meridian
D) The Tropic of Cancer
13. A line that intersects each meridian at the same angle is called:
- A) True Azimuth B) Constant Azimuth
C) Geodetic Latitude D) Authalic Latitude
14. Which among the following is **not** a conformal projection?
- A) Mercator B) Stereographic azimuthal
C) Lambert's conic D) Bonne's
15. The survey method based on distance measurement alone is called:
- A) Triangulation B) Trilateration
C) Traversing D) Trigonometry
16. Identify the active remote sensor:
- A) SLAR B) Quickbird C) Landsat D) LISS
17. Which among the following is a map with the largest scale?
- A) Topographical map B) Wall map
C) Cadastral map D) Atlas
18. Which is the method for portraying attribute value volumes?
- A) Dot mapping B) Run-length encoding
C) Chorochromatic D) Typification
19. Photographs obtained from three or more separate negatives which are exposed simultaneously by a multi lens camera are ----- photographs.
- A) Sonne's B) Timerozon C) Composite D) Oblique

20. The author of *The Nature of Geography*:
 A) Vidal de La Blache B) Richard Hartshorne
 C) E.C.Semple D) Carl Ritter
21. Who among the following is a deterministic geographer?
 A) Febvre B) Brunhes C) Ratzel D) Sauer
22. Stop and Go Determinism was advocated by:
 A) Alexander von Humboldt B) Elseworth Huntington
 C) Brian Berry D) Griffith Taylor
23. The Journal published by Radical Geographers:
 A) Geographia B) Antipode
 C) Human Geography D) Erdkunde
24. The humanistic approach in geography is rooted in :
 A) Geocentrism B) Anthropocentrism
 C) Communocentrism D) Empiricism
25. Stochastic Models specify:
 A) Sequences of events within a certain range
 B) Descriptive and explanatory nature of geography
 C) Conditional probability of existence of natural phenomena at a particular time period
 D) Empirical generalisation of human-nature interrelationship
26. “The Propagation of Innovation Waves” was explained by:
 A) P. Hagget B) W.Christaller
 C) T.Hagerstrand D) R.J.Chorley
27. “Who gets what, where and how” is associated with ---- approach.
 A) Environmentalistic B) Behavioural
 C) Radical D) Welfare
28. Which among the following pairs is correctly matched?
 A) Paradigm shift – Kirk
 B) Principle of Terrestrial Unity – Humboldt
 C) Industrial Location Theory – Losch
 D) Agriculture Location Theory – Weber
29. Which among the following is **not** an example of ethnic religion?
 A) Christianity B) Hinduism C) Judaism D) Shintoism
30. Rimland Theory was put forth by:
 A) H.J.Mackinder B) N.J.Spykman
 C) P.Geddes D) G.G.Chisholm

31. Which among the following languages belongs to the Latin linguistic family?
 A) English B) Slavic C) Hebrew D) Provençal
32. The Semangs inhabit:
 A) Brazil B) Malaysia C) Sri Lanka D) Kenya
33. The oldest ancestor of modern man from the following is:
 A) Neanderthal Man B) Java Man
 C) Peking Man D) Homo habilis
34. The Cephalic Index relates to :
 A) Shape of the nose
 B) Capacity of the skull
 C) Shape of the head
 D) Ratio of the breadth and the length of the eye
35. During the Puranic period, the region surrounding the Mediterranean Sea was referred to as ----- Dwipa.
 A) Jambu B) Plaska C) Saka D) Kusa
36. Which among the following is a tributary of the river Mahanadi?
 A) The Wardha B) The Musi
 C) The Mand D) The Herangi
37. The number of births in a year per thousand of mid-year population is referred to as:
 A) Birth rate B) Crude birth rate
 C) Total fertility rate D) Life expectancy at birth
38. Which among the following criteria is taken as a pre-requisite for the designation as urban area?
 A) A minimum population of 10000
 B) A density of population of at least 400 persons per sq. Km.
 C) At least 50% of the male work force engaged in non agricultural activities
 D) All the above
39. The most polluted city in the world among the following is:
 A) Shanghai B) London C) Singapore D) Delhi
40. The Sugarcane Research Institute is located at:
 A) Lucknow B) Coimbatore C) Calcutta D) Bangalore
41. The “Shrimp Capital” of India:
 A) Kochi B) Visakhapatnam
 C) Nellore D) Cuddalore

42. A situation where there is a reduction in rainfall for a specific period below a specific amount is ---- drought.
A) Ecological B) Hydrological
C) Meteorological D) Agricultural
43. The settlement pattern found in the farmsteads of Punjab and Haryana:
A) Compact B) Dispersed
C) Hamleted D) Semi-compact
44. Which among the following statements regarding the Tribal Sub Plan is correct?
A) It enjoys the privilege of independent functioning
B) It is integrated with the State Plan
C) It is applicable to States where tribals represent more than 60% of the population
D) It was proposed during the Seventh Five Year Plan
45. The Social Forestry Programme in India was launched in the year:
A) 1975 B) 1976 C) 1977 D) 1978
46. Which among the following weather phenomena indicate a negative SOI?
A) Tahiti pressure exceeds that of Port Darwin
B) Pressure high over Indian Ocean and low over the East Pacific
C) Low rainfall over the Eastern Pacific
D) Good monsoon over India
47. The Norwesters are known as *Barodoli Chheerha* in:
A) West Bengal B) Karnataka
C) Tamil Nadu D) Assam
48. Which among the following is **not** a Biosphere Reserve?
A) Gulf of Mannar B) Agasthiamalai
C) Panchmarhi D) Pulicat
49. The river system that drains the western flanks of the Wayanad Plateau:
A) Chaliyar B) Chittari C) Kuppam D) Chandragiri
50. The most populous district in Kerala as per 2011 Census:
A) Ernakulam B) Malappuram
C) Thiruvananthapuram D) Kozhikode
51. NH 183 connects
A) Kollam – Theni B) Edappally – Aroor
C) Kollam – Kazhuthurutti D) Kozhikode – Palakkad

52. The district in Kerala most prone to severe coastal erosion?
A) Alappuzha B) Kollam
C) Ernakulam D) Thiruvananthapuram
53. Radiation fog forms:
A) Only over the oceans
B) Only over the land
C) Both the land and the oceans
D) Only in the summer season
54. Assertion [A]: The diurnal range of temperature in the equatorial oceans and seas is symmetrical.
Reason [R]: During day time the temperature of the surface water rises quickly, but at night the rate of decrease of temperature is low.

A) [A] and [R] are true and [R] is the correct explanation of [A]
B) [A] and [R] are true but [R] is not the correct explanation of [A]
C) [A] is true but [R] is false
D) [A] is false but [R] is true
55. T-S Diagram was devised by:
A) F. Beaufort B) Helland - Hansen
C) John Murray D) V. Bjerknes
56. The focus of JNNURM is integrated development of:
A) Drought prone areas
B) Tribal areas
C) Rural infrastructure
D) Urban infrastructure
57. The author of "A service classification of American Cities":
A) M. Arousseau B) C. D. Harris
C) H. Nelson D) E. W. Burgess
58. The hierarchy of Christaller's settlement systems in the ascending sequence is:
A) Hamlet, Village, Town, City, Metropolis
B) Metropolis, City, Town, Village, Hamlet
C) Village, Hamlet, Town, City, Metropolis
D) Village, Town, Hamlet, City, Metropolis
59. Identify the correct sequence of urban zones from the centre to the periphery as envisaged by E.W. Burgess:
A) Inner suburbs, Outer suburbs, Transitional zone, CBD, Commuters' zone
B) Commuters' zone, CBD, Transitional zone, Inner suburb, Outer suburb
C) CBD, Inner suburb, Transitional zone, Outer suburb, Commuters' zone
D) CBD, Transitional zone, Inner suburb, Outer suburb, Commuters' zone

60. The planet wide city formed by the fusion of megalopolises is termed as:
 A) Eperopolis B) Ecumenopolis
 C) Tyrannopolis D) Aerotropolis
61. The Rank Size Rule was proposed by:
 A) Homer Hoyt B) Patrick Geddes
 C) G.K. Zipf D) Mark Jefferson
62. Arrange the following Lesser Himalayan ranges from West to East:
 1. The Nag Tibba
 2. The Pir Panjal
 3. The North Kashmir
 A) 1, 2, 3 B) 3, 2, 1 C) 2, 1, 3 D) 2, 3, 1
63. The lacustrine deposits in the Kashmir Valley is known as:
 A) The Karewas B) The Tarai
 C) The Bhabar D) The Khadar
64. The state having the highest density of irrigation canals in India:
 A) Punjab B) Haryana
 C) Uttar Pradesh D) Rajasthan
65. What are the geographical conditions necessary for the growth of groundnut?
 1. It requires a temperate climate
 2. Rainfall should be between 50 to 75 cms
 3. Temperature should be between 20°C to 25°C
 4. Wet, loamy soil
 A) 1 & 4 only B) 2 & 3 only C) 1,2 & 4 only D) 1, 2, 3 & 4
66. The western part of the Marusthali covered by shifting sand dunes is called:
 A) Dhrian B) Rohi C) Thali D) Reh
67. The Laws of Primate City was established by:
 A) Jean Gottmann B) Jean Brunhes
 C) Patric Geddes D) Mark Jefferson
68. Which among the following statements regarding Behavioural Geography is/are true?
 1. Recognise man as a rational person
 2. Gives more weight to an individual rather than groups
 3. Environment has a dual character
 A) 1 & 2 only B) 1, 2 & 3 C) 1 only D) 2 & 3 only

69. The theme which support the view that reality is mental or mind dependant:
- A) Idealism
 - B) Existentialism
 - C) Functionalism
 - D) Pragmatism
70. The longest eon of the Geologic Time Scale is:
- A) Precambrian
 - B) Proterozoic
 - C) Phanerozoic
 - D) Archaean
71. Author of *The Theory of the Earth*:
- A) W.M.Davis
 - B) Charles Lyell
 - C) James Hutton
 - D) John Playfair
72. According to Hayford, the density of the regions of the earth's crust vary above the level of compensation -----.
- A) Horizontally
 - B) Vertically
 - C) Both horizontally and vertically
 - D) Neither horizontally nor vertically
73. As per Wegner, which among the following is responsible for the continental drift?
- A) Dynamic forces
 - B) Tidal drag of the sun and the moon
 - C) Gravity
 - D) Thermal convection currents
74. Assertion [A]: Oceanic crust is comparatively younger than the continental crust.
Reason [R] : Sea floor spreading results in the formation of newer oceanic crust.
- A) [A] and [R] are true and [R] is the correct explanation of [A]
 - B) [A] and [R] are true but [R] is not the correct explanation of [A]
 - C) [A] is true but [R] is false
 - D) [A] is false but [R] is true
75. Which among the following is a Kratogen?
- A) The Himalayas
 - B) The Alps
 - C) The Rockies
 - D) The Peninsular India
76. The slowest type of mass movement:
- A) Debris avalanche
 - B) Rock slide
 - C) Soil creep
 - D) Slump
77. The soil which develop in tropical region:
- A) Podzols
 - B) Laterites
 - C) Chernozems
 - D) Sierozems

78. Which among the following statements regarding the graded stream is/are true?
1. It attains that slope or gradient sufficient enough for transportation of its load
 2. It is a stream loaded to its capacity
 3. It is neither eroding nor depositing
- A) 1, 2 & 3 B) 2 & 3 only C) 1 only D) 2 only
79. Arrange the following landforms in their correct sequence of their formation:
1. Cirque 2. Moraines 3. Arêtes 4. Fjords
- A) 1, 3, 4, 2 B) 2, 1, 4, 3 C) 1, 3, 2, 4 D) 3, 1, 2, 4
80. Assertion [A]: India is considered as the largest producer of fruits and the second largest producer of vegetables in the world.
Reason [R] : The geographic diversity enables India to grow a large variety of horticultural crops
- A) [A] and [R] are true and [R] is the correct explanation of [A]
 - B) [A] and [R] are true but [R] is not the correct explanation of [A]
 - C) [A] is true but [R] is false
 - D) [A] is false but [R] is true
81. The ratio between the total population and the total cultivated area is called ---- density.
- A) Arithmetic B) Agricultural
 - C) Physiological D) Economic
82. Which among the following statements regarding the pattern of world population density is correct?
- A) Singapore is the most densely populated country in the world
 - B) North America has a population density of more than 100 persons per sq km.
 - C) The population density is declining gradually in the world
 - D) The least densely populated country is South Africa
83. The Intervening Opportunities Model of Migration was proposed by:
- A) E. Ravenstein B) G.K. Zipf
 - C) W.J. Reilly D) S. A. Stouffer
84. The ratio between two sexes at the time of enumeration is known as---- sex ratio.
- A) Primary B) Secondary C) Tertiary D) Natural

85. Which among the following statements regarding population was enunciated by Marx?
- A) Population increases geometrically, while subsistence increases arithmetically
- B) Man's tendency to increase in number diminish as the density of the population in the territory increases
- C) The greater strenuous effort on the part of the individuals to ensure their personal advancement shall weaken their interest in reproduction
- D) The birth and death rates and consequent family size is inversely correlated with the means of subsistence at the disposal of different categories of workers
86. The country which has entered the fifth stage of demographic transition:
- A) China B) Germany C) India D) UK
87. Which among the following statements regarding the Ricardian Theory of Population growth is true?
- A) Labour is an abstract commodity in the market system
- B) Labour is dear when it is plentiful
- C) In the long run, wages deviate from their natural price
- D) Accumulation of capital never stops
88. The regional study in Geography was emphasized by:
- A) Ashok Mitra B) Karl Ritter
- C) F. Ratzel D) A. J. Herbertson
89. Identify the example for functional region:
- A) Cultural region B) Geographic region
- C) Administrative region D) Climatic region
90. The Growth Pole Theory of F. Perroux is based on:
- A) Schumpeterian theory of economic development
- B) Rostow's stages of economic growth
- C) Hirschman's spread and backwash effects
- D) Adam Smith's theory of economic development
91. The Planning Commission introduced decentralised planning in India during the ---- five year plan.
- A) First B) Fifth C) Second D) Seventh
92. The agency associated with the watershed development programmes in India:
- A) ADB B) IDBI C) NABARD D) KIFBI
93. Streams unrelated to structural control are:
- A) Subsequent B) Insequent
- C) Resequent D) Obsequent

94. Islands, along with the spits that connect them with the mainland are called:
 A) Off shore bars B) Bayhead bars
 C) Tombolods D) Hooks
95. The most violent of the volcanic eruptions is:
 A) The Vulcanian B) The Strombolian
 C) The Hawaiian D) The Plinian
96. Which among the following statements regarding Barchans is correct?
 1. The back slope is gentler
 2. The convex side faces the wind
 3. The maximum supply of sand is along the central axis
 A) 1, 2 & 3 B) 1 only C) 2 only D) 1 & 2 only
97. Assertion [A]: Solution and erosion due to the outflow of underground water leads to the formation of submarine canyons.
 Reason [R] : The porous sedimentary outcrops from the land extend up to the continental slopes.
 A) [A] and [R] are true and [R] is the correct explanation of [A]
 B) [A] and [R] are true but [R] is not the correct explanation of [A]
 C) [A] is true but [R] is false
 D) [A] is false but [R] is true
98. Match List I (Ocean currents) with List II (Oceans)
 List I List II
 a. The Gulfstream 1. The Pacific
 b. The California 2. The Indian
 c. The Agulhas 3. The Atlantic
 A) a-3, b-1, c-2 B) a-1, b-3, c-2
 C) a-2, b-1, c-3 D) a-2, b-3, c-1
99. Assertion [A]: The Atlantic Polar front has its full development during the winter
 Reason [R]: The Polar Continental and Tropical Maritime air masses comes to close proximity during the winter season
 A) [A] and [R] are true and [R] is the correct explanation of [A]
 B) [A] and [R] are true but [R] is not the correct explanation of [A]
 C) [A] is true but [R] is false
 D) [A] is false but [R] is true
100. Which among the following is **not** a hot wind?
 A) Sirocco B) Santa Ana C) Harmattan D) Bora

101. Which among the following statements regarding the horse latitudes is **false**?
- A) It is a high pressure area at the divergence of trade winds and the westerlies
 - B) They lie in the Subtropical High Pressure belt
 - C) The horse latitudes are characterised by strong winds
 - D) There are seasonal variations in their location
102. The transitional zones between ecological communities are called:
- A) Ecotopes B) Ecotones C) Ecopoiesis D) Ecophagy
103. The parallel retreat of slopes was advocated by:
- A) W.M. Davis B) Wooldridge & Morgan
 - C) W. Penck D) A. Young
104. In Koeppen’s scheme of climatic classification BSh denotes
- A) Arid low latitude deserts
 - B) Arid mid-latitude deserts
 - C) Semi arid mid-latitude deserts
 - D) Semi arid low-latitude steppe
105. Which among the following is a flow resource?
- A) Coal B) Petroleum C) Sunshine D) Uranium
106. The concept of resource was promulgated by:
- A) E.W.Zimmermann B) W.C.Mitchell
 - C) A.O.Hirschmann D) R.J.Chorley
107. The changing role of technology in resource development could be best explained by:
- A) The concept of economic rent
 - B) The law of diminishing returns
 - C) The distance-decay effect
 - D) The concept of phantom pile
108. Education and Research comes under the ---- sector.
- A) Secondary B) Tertiary C) Quaternary D) Quinary
109. Which among the following are the correctly matched pairs?
- 1. Detroit – Aircraft industry
 - 2. San Francisco – Ship building industry
 - 3. Los Angeles – Textile manufacturing
 - 4. Hamilton – Heavy engineering industry
- A) 1 & 2 only B) 2 & 3 only C) 3 & 4 only D) 2 & 4 only

110. Which among the following countries is **not** a member of the APEC?
 A) The Russian Federation B) Canada
 C) China D) Argentina
111. In monsoon lands, agriculture is characterised by:
 1. Extensive farming 2. Paddy dominance
 3. Traditional farming implements
 A) 1, 2 & 3 B) 2 & 3 C) 1 & 2 D) 1 & 3
112. Match List I (Shifting cultivation) with List II (Country)
 List I List II
 a. Ladang 1. Thailand
 b. Ray 2. Indonesia
 c. Taungya 3. Vietnam
 d. Tamrai 4. Myanmar
 A) a-2, b-3, c-4, d-1 B) a-2, b-4, c-1, d-3
 C) a-4, b-1, c-3, d-2 D) a-4, b-3, c-1, d-2
113. Arrange the following agricultural activities in the descending order on the basis of rent paying ability, following von Thunen's analysis:
 1. Dairying 2. Truck farming 3. Cereal farming
 4. Ranching 5. Mixed crop and live stock farming
 A) 2, 1, 5, 3, 4 B) 1, 2, 3, 4, 5
 C) 4, 3, 5, 2, 1 D) 5, 3, 2, 4, 1
114. The land capability class VII signifies:
 A) Very good cultivable land
 B) Good cultivable land on gentle slopes
 C) Too wet or stony lands unsuitable for cultivation
 D) Steep, rough, eroded lands suitable only for forest management
115. Which among the following states are included in the Rice-Jute-Tea region?
 A) Assam, Chattisgarh, Odisha, Tripura
 B) Punjab, Sikkim, Uttarakhand, Himachal Pradesh
 C) Maharashtra, Madhya Pradesh, Jharkhand, Uttar Pradesh
 D) Andhra Pradesh, Karnataka, Kerala, Tamil Nadu
116. Who is known as the father of red revolution in India?
 A) Varghese Kurien B) M.S.Swaminathan
 C) Vishal Tewari D) Benjamin Peary Lal

117. Match List I (Country) with List II (GPS)

List I	List II
a. USA	1. QZSS
b. China	2. GAGAN
c. Japan	3. NAVSTAR
d. India	4. Compass

- A) a-3, b-4, c-1, d-2 B) a-4, b-3, c-1, d-2
C) a-1, b-3, c-2, d-4 D) a-2, b-4, c-3, d-1

118. The highest peak in the Shiwaliks:

- A) Nandadevi B) Mt.Kamet
C) Mt.K2 D) Kanchenjunga

119. The world's largest lithium reserve is found in:

- A) USA B) Bolivia
C) India D) None of these

120. Arrange the following doabs from West to East:

1. Chaj 2. Rechna 3. Bari 4. Bist-Jalandhar

- A) 1, 2, 3, 4 B) 4, 3, 2, 1 C) 4, 2, 1, 3 D) 4, 3, 1, 2
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