

1. Who postulated the idea 'geomorphic forms are an expression of phase and rate of uplift in relation to the rate of degradation'?
A) William D. Thornbury B) W. M. Davis
C) Walter Penk D) Richard Bailey
2. According to Weber's Industrial Location Theory, three main factors that influence an industrial location are:
A) Raw material – Market – Fuel
B) Transport cost – Labour cost – Agglomeration of Economies
C) Threshold population – Transportation system – Market
D) Availability of water – Land – Market
3. A continuous urban spread constituting a town and its adjoining outgrowth of two or more physically continuous towns in India is known as:
A) Urban Outgrowth B) Conurbation
C) Metropolitan Area D) Urban Agglomeration
4. A Chorochromatic Map is an example of:
A) Quantitative Map B) General Map
C) Qualitative Map D) Special purpose Map
5. Small registration marks expressed on the edges of aerial photographs are known as:
A) Principle Marks B) Fiducial Marks
C) Perspective Marks D) Nadir Marks
6. Identify the reasons for the Chotanagpur Plateau being popularly known as the 'Ruhr of India':
 1. Availability of coal and iron ore in close proximity enabled establishment of many iron & steel industries.
 2. Black cotton soil favoured cultivation that led to many cotton textile industries
 3. Availability of cheap labour from Jharkhand, Odisha and West Bengal
 4. Kolkata region provide large market and Kolkata Port helps in export of goodsA) 1, 3&4 only B) 1&2 only C) 2&4 only D) 2&3 only
7. The spatial relationship in which two or more polygons share a common boundary is termed as:
A) UNION B) Contiguity C) Buffer D) Adjacency
8. The name of the International Airport at Hyderabad is:
A) Indira Gandhi International Airport
B) Jawaharlal Nehru International Airport
C) Rajiv Gandhi International Airport
D) Kempegowda International Airport

9. The State with highest share of rural population in India as per 2011 Census is:
 A) Bihar B) Uttar Pradesh
 C) Jharkhand D) West Bengal
10. In which of the following Agro-Ecological zones is cotton cultivated?
 A) Deccan Plateau and Eastern Ghats Hot and Semi-arid region
 B) Northern Plains and Central Highlands region
 C) Central Highlands, Gujarat Plains and Kathiawar region
 D) Eastern Plateau and Eastern Ghats region
11. The Law of Primate City was postulated by:
 A) E. W. Burgess
 B) C. K. Ziff
 C) C. D. Harris & E. L. Ullamn
 D) Mark Jefferson
12. Siachen Glacier is found in:
 A) The Karakoram Range
 B) The Pir Panjal Range
 C) The Kumaon-Garhwal Region
 D) The Kanchenjunga-Everest Region
13. Which among the following rivers have Antecedent Drainage system?
 A) Krishna B) Damodar C) Kaveri D) Indus
14. Which part of India comes under BWhw type of climate as per Koppen's Climatic Classification?
 A) Peninsular Plateau B) Rain shadow regions of Western Ghats
 C) Western Rajasthan D) Coromandel Coast
14. The Indira Gandhi Canal draws water from:
 A) River Ganga B) River Sutlej & Beas
 C) River Chambal D) River Yamuna
16. As per the Myrdal's Model of Cumulative Causation the transmission of goods and services from the periphery/hinterland toward the core, are known as:
 A) Spread Effect B) Backward Growth Effect
 C) Backwash Effect D) Centripetal Effect
17. As per R.P. Misra's Growth Foci Model a Growth Center will be----- Level.
 A) Regional B) National
 C) Sub-Regional D) Village
18. The district with least urban population in Kerala as per 2011 Census is:
 A) Idukki B) Pathanamthitta
 C) Kasaragod D) Wayanad

19. The hot and dry wind which moves down the eastern slopes of the Rockies Mountains:
 A) Chinook B) Foehn C) Sirocco D) Loo
20. The shape of the market area around a settlement according to Christaller's Model:
 A) Hexagonal B) Triangular C) Circular D) Rectangular
21. The major objective of Pink Revolution in India is to:
 A) Increase the area and production of food grains
 B) Increase the overall production of fish in a sustainable manner
 C) Increased production of fertilizers
 D) Modernization of meat and poultry processing sector
22. Who among the following defined Geography as 'Concerned to provide accurate, orderly and rational description and interpretation of the variable characters of the Earth's surface?
 A) Schafer B) Ackerman C) Hartshorne D) Yeats
23. The technique of building accurate generalization with predictive power by precise quantitative description of spatial distribution, spatial structure, spatial organization and spatial relationship, is known as----- Analysis.
 A) Locational B) Spatial C) Regional D) Temporal
24. Jean Brunhes was a -----Geographer.
 A) French B) German C) Swiss D) American
25. The process by which snow or ice is lost from a glacier is known as:
 A) Abrasion B) Agglomeration
 C) Ablation D) Accretion
26. Identify the Theory regarding the origin of the earth based on the factors given below:
 1. The tidal protuberances jutting out from the sun should have been cigar shaped, thick in the middle and thin in the middle and thin at both ends.
 2. The bigger planets remained in the gaseous state for longer time.
 A) Rotational and Tidal Theory
 B) Tidal Hypotheses
 C) Nebular Hypotheses
 D) Binary Star Theory
27. An area which contains at least 1500 species of vascular plants found nowhere else in the world and have lost at least 70% of its primary natural vegetation is treated as a:
 A) Niche B) Ecosystem
 C) Habitat D) Biodiversity Hotspot

28. Assertion [A] : Routes radiating from the city center creates a sectoral pattern of landuse and rental values which in turn influence the urban landuse pattern
Reason [R] : Landuse pattern is in most large cities develop around a number of discrete centers
- 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
29. The longest wavelength of the visible spectrum of electromagnetic radiation is:
A) 0.4 – 0.446 μ B) 0.576-0.592 μ
C) 0.592-0.620 μ D) 0.620-0.7 μ
30. The concept that successive societies leave their imprints on a place, each contributing to the cumulative cultural landscape of that place, is known as:
A) Campage B) Sequent Occupance
C) Spatial Hierarchy D) Cultural Ecology
31. Which among the following statements is true with regard to the Carboniferous Period of Geological Time Scale?
A) Coal fields of the earth came to be formed
B) In Europe and North America widespread layer of chalk were deposited
C) Characterized by large volcanism
D) Folding and faulting of area from Scandinavia to Greenland occurred
32. The Polynesian type of Human Race is found in:
A) Turkey B) Russia
C) New Zealand D) Norway
33. Match the following:
- | Soil Types | Regions Found |
|--------------|--------------------------------|
| a. Gelisols | 1. Tropical wet & dry climates |
| b. Molisols | 2. Moist and wet regions |
| c. Vertisols | 3. Tundra & Sub Arctic regions |
| d. Ultisols | 4. Grassland regions |
- A) a-3, b-4, c-1, d-2 B) a-3, b-1, c-4, d-2
C) a-2, b-3, c-1, d-4 D) a-2, b-3, c-4, d-1
34. The layers of the atmosphere which record decreasing temperature with increasing altitude:
A) Stratosphere and Thermosphere
B) Tropopause and Stratopause
C) Troposphere and Mesosphere
D) Ozonosphere and Ionosphere

35. Identify the statement which is TRUE with regard to the characteristics of a Functional region:
- Have clear and distinctive boundaries
 - Shared cultural or physical characteristics
 - Decreasing intensity of interactions with increasing distance from the node.
 - Subjective boundaries based on perception
36. The Five Year Plan period during which Jawaharlal Nehru National Urban Renewal Mission started:
- Fourth
 - Sixth
 - Nineth
 - Eleventh
37. What is a Statutory Town in India?
- A town defined by statutory bodies such as a municipality, containment board, notified town area committee, Town Panchayat, Nagar Palika etc.
 - A Place which has a minimum of 5000 population and 75% of the main workers engaged in non-agricultural activities
 - Continuous urban spread constituting a town and its adjoining outgrowth
 - A viable unit such as a village or part of a village contiguous to a town and possess the urban features in terms of infrastructure and amenities.
38. The Adams Bridge joins India with:
- Sri Lanka
 - Myanmar
 - Nepal
 - Bhutan
39. The Mandakini Valley is in:
- Himachal Pradesh
 - Uttar Pradesh
 - Uttarakhand
 - Sikkim
40. Identify the characteristics which are **not** true with regard to geo-stationary satellites:
- They cover each area of the earth at constant local time
 - At any given latitude the position of the sun in the sky as the satellite passes overhead will be the same within the same season
 - They view the same portion of the earth all the time
 - They are positioned approximately at an altitude of 36000 kms. from the surface of the earth
- 1 & 2 only
 - 3 & 4 only
 - 1 & 4 only
 - 2 & 3 only
41. The concept of Neo-Determinism was proposed by:
- Ellen Semple
 - Fredrich Ratzel
 - Carl Ritter
 - Griffith Taylor
42. The flat-topped submerged mountains that show evidence of gradual subsidence:
- Sea Mounts
 - Guyots
 - Ocean Ridges
 - Atolls

43. Seaward moving current found near the shore which are caused by the channeled return of water and sediments from large waves that have broken against the land:
 A) Longshore Current B) Rip Current
 C) Off-shore Current D) Onshore drift
44. Clear crystalline or granular ice droplets formed when super cooled fog or cloud encounter a vertical structure like trees:
 A) Rime B) Hail C) Dew D) Sleet
45. Which of the following statement regarding the ITCZ is **not** true?
 A) It is a zone of low atmospheric pressure
 B) It is a zone of low temperature
 C) South-East and North-East Trade Winds converge on it
 D) It follows the apparent movement of the sun
46. What is the name of the layer of ocean water that lies below the surface water and is characterized by rapid decrease of temperature with increasing depth?
 A) Isocline Layer B) Halocline Layer
 C) Thermocline Layer D) Isohaline Layer
47. The Boreal Forests are found in:
 A) Brazil B) Kenya C) Indonesia D) Alaska
48. Point Calimere Wildlife Sanctuary is in:
 A) Maharashtra B) Tamil Nadu C) Odisha D) West Bengal
49. Intensive Subsistence Agriculture is practiced in:
 A) Australia B) Europe
 C) Monsoon Asia D) Central America
50. An example of Foot Loose industry is:
 A) Petrochemicals B) Cotton Textiles
 C) Automobile Manufacturing D) Information Technology
51. The Naples Industrial Region is located in:
 A) Italy B) Germany C) France D) Austria
52. The area imaged on the surface of the earth by a satellite sensor:
 A) Path B) Swath C) Nadir D) Pass
53. Who used the least value of standard deviation for finding out the crop combination?
 A) Weaver B) Doi C) Raifulla D) Jasbir Singh
54. The portion of a map that is the central focus of the map document is known as:
 A) Neat Line B) legend C) Data frame D) Graphical Scale

74. Which of the following criteria E.A. Ackerman did not include in his criteria for formulating world's population-resource ratio regions?
 A) Economic factor B) Resource factor
 C) Technology factor D) Land use / land capability factor
75. Identify the characteristics that Perroux did **not** consider for his Growth Pole Theory:
 A) Homogeneous Space B) Uniform transportation cost
 C) Field of Force D) Economic Plan
76. Which among the following are Govt. of India's Urban Development Programs?
 1. HRIDAY 2. PMGSY 3. Mission ANTYODAYA 4. NMSH
 A) 2&3 only B) 1&3 only C) 1&4 only D) 3&4 only
77. Arrange the States in descending order in terms of area under paddy cultivation:
 1. Tamil Nadu 2. Andhra Pradesh 3. West Bengal 4. Punjab
 A) 3,4,2,1 B) 4,3,1,2 C) 2,1,4,3 D) 3,1,2,4
78. The region which known as the 'Mineral Heartland of India':
 A) The Marwar Plateau B) The Bhaghelkand Uplands
 C) The Chotanagpur Plateau D) The Malwa Plateau
79. The National Highway 544 connects:
 A) Kanyakumari to Varanasi B) Kozhikode to Mysore
 C) Salem to Kochi D) Panvel to Kanyakumari
80. Survey of India's 1-inch toposheets have RF of:
 A) 1:31680 B) 1:63360 C) 1:50000 D) 1:10000
81. Identify the reason for water appearing dark in a False Colour Composite image:
 A) Water reflects almost all the energy in the visible spectrum
 B) Water absorbs almost all the energy in the visible spectrum
 C) Water scatters the energy in the blue spectrum
 D) Water reflects the energy in the near infrared spectrum
82. According to Thornthwaite's Climatic Classification a Moisture Index value between 20 and 100 indicates ----- Climate.
 A) Dry Sub-Humid B) Per-Humid
 C) Semi-Arid D) Humid
83. Occidental Cultural Realm is found in:
 A) Europe B) West Africa
 C) North America D) South-East Asia

84. Ellen Semple was one of the leading proponents of:
 A) Neo-Determinism B) Determinism
 C) Possibilism D) Probabilism

85. Match the following:

MOTION	MATERIAL	SPEED
a. Creep	1. Rock	i. Slow or fast
b. Slump	2. Soil	ii. Fast
c. Fall	3. Soil or Debris	iii. Slow

- A) a-2-iii, b-3-i, c-1-ii B) a-3-ii, b-2-i, c-1-iii
 C) a-3-i, b-2-ii, c-1-iii D) a-2-iii, b-1-ii, c-3-i
86. Grooves and scratches produced on the bedrock by glacial movements are known as:
 A) Striations B) Abrasions C) Crevasses D) Horns
87. Identify the characteristics given below of Koeppen's Aw type of climate which is **not** true:
 A) Occurs north and south of Af type of climatic region
 B) The wet season is shorter and the dry season is longer often with severe drought
 C) Temperature is high throughout the year
 D) Tropical evergreen forests with dense canopy and large biodiversity are found
88. Which among the following statements is **not** true with regard to the origin of agriculture?
 A) Agriculture did not originate desperately in communities which were in short supply of food but among the communities where there were sufficient supply of food
 B) Agriculture began in forested lands which had soft soils easy to dig
 C) Primitive agriculture originated in large river valleys
 D) Agriculture originated in commuters which were sedentary in nature
89. Von-Thunen's assumption of 'Isotropic' surface pertain to uniform -----.
 A) Transport cost
 B) Land value
 C) Relief, soil, climate and all other physical conditions
 D) Market
90. Most widely used map projection for showing navigation routes is---- Projection.
 A) Mollweide B) Mercator C) Bonne's D) Sinusoidal
91. Which among the following is a RAMSAR site in Kerala?
 A) Pookode Lake B) Vellayani Lake
 C) Idava Lake D) Ashtamudi Lake

92. Identify the step that is **not** included in the process of map abstraction:
 A) Enlargement B) Classification
 C) Generalization D) Selection
93. Identify the characteristics which are TRUE with respect to supervised Digital image classification:
 1. Requires labelled training data for each class
 2. Uses clustering algorithm to group pixels
 3. Prior knowledge of class identity is needed
 4. Classes are obtained from data patterns
 A) 1&3 only B) 2&4 only C) 2&3 only D) 1&2 only
94. The Virippu rice growing season in Kerala is:
 A) April-May to September-October
 B) September-October to December-January
 C) December-January – March-April
 D) May-June to August-September
95. The Kerala Agricultural University's Regional Research Station for High Range Zone is located at:
 A) Painav B) Nelliampathy
 C) Mananthavady D) Ambalavayal
96. Author of the book 'Geography A Modern Synthesis':
 A) David Harvey B) Alfred Weber
 C) Peter Haggett D) Richard Chorley
97. The largest language family in the world is ----- Family.
 A) Sino-Tibetan B) Indo-European
 C) Niger-Congo D) Austronesian
98. Surface water flow that occurs only during and shortly after precipitation:
 A) Intermittent Flow B) Ephemeral Flow
 B) Perennial Flow D) Sheet Wash
99. Which type of landforms are Sinkholes?
 A) Fluvial B) Aeolian C) Karst D) Coastal
100. The Mid Oceanic Ridges are formed when:
 A) Two continent crust plates diverge apart
 B) Two ocean crust plates diverge apart
 C) One continent crust plate and one ocean crust plate converge
 D) One continent crust plate and one ocean crust plate slide apart

101. The Tadoba National Park is in:
 A) Maharashtra B) Madhya Pradesh
 C) Meghalaya D) Gujarat
102. Based on the characteristics given below, identify the type of Agricultural Region:
 1. Extensive farm size 2. Use of heavy machinery
 3. Far away from market
- A) Commercial livestock and crop farming
 B) Subsistence crops and livestock farming
 C) Commercial grain farming
 D) Commercial dairy farming
103. Following are the characteristics of Livestock Ranching. Identify the correct ones.
 1. Wide varieties of animals are kept in different regions
 2. Cover large areas and are divided into number of parcels which are fenced for grazing
 3. Only one type of animal is reared
 4. Done in an organized and scientific manner
- A) 2,3&4 only B) 1&2 only C) 1&4 only D) 1& 3 only
104. Ladang is the name of shifting cultivation practiced in:
 A) North-east India
 B) Central America and Mexico
 C) Central Africa
 D) Indonesia and Malaysia
105. Which of the following is **not** a Biosphere Reserve in India?
 A) Nokrek B) Komodo C) Panna D) Pachamarhi
106. The concept that the physical environment provides a range of possibilities which man turns to his use according his needs, wishes and capacities in creating his habitat, is known as:
 A) Determinism B) Neo-Determinism
 C) Possibilism D) Environmentalism
107. A procedure for adjusting the co-ordinates of all data points in a GIS data set to allow more accurate match between known location and few data points within the data set:
 A) Rubber Sheeting B) Edge Matching
 C) Run-length Encoding D) Quad-Tree Encoding
108. The Integrated Watershed Development Programme was first started in India in:
 A) 1991 B) 1965 C) 2001 D) 1989

109. What is Tidal Range?
- A) The height difference between high tide water level at Spring tide and high tide at Neap Tide
 - B) The height difference between the high tide water level and the low tide water level
 - C) The height difference between low tide water level at Spring tide and low tide water level at Neap tide
 - D) The portion of ocean that experiences the tide.

110. Match the following:
Ocean Deposits

DEPOSIT	LOCATION	TYPE
a. Gravel & Sand	1. 1500-2000 Feet	i. Volcanic
b. Globigerina	2. Deep Sea	ii. Terrigenous
c. Red Clay	3. Shallow Water	iii. Calcareous

- A) a-3-ii, b-1-iii, c-2-i
 - B) a-2-i, b-3-iii, c-1-ii
 - C) a-1-iii, b-2-ii, c-3-i
 - D) a-1-ii, b-2-iii, c-3-i
111. The main aim of ARHC scheme of Govt. of India is:
- A) Provide ease of living to urban migrants/poor in industrial sector as well as non-formal urban economy to get access to dignified affordable rental housing close to their work place.
 - B) Building resilience of cities to climate change impacts and strengthening their capacities to ‘bounce back’ from climate related extreme events and disaster risks.
 - C) To promote sustainable and inclusive cities that provide infrastructure and give a decent quality of life to its citizens.
 - D) To provide shelter equipped with essential services to the urban homeless and to address livelihood concerns of urban street vendors.
112. According to Christaller’s central Place Model K=7 Principle is called:
- A) Market Principle
 - B) Administrative Principle
 - C) Traffic Principle
 - D) Economic Principle
113. Identify the ocean current based on the characteristics given below:
1. Low salinity cold current that along the western coast of South America
 2. Provides nutrient rich water to the Galapagos Islands and assist in the preservation of the island’s unique biodiversity
 3. It decreases the amount of precipitation and temperature on the western coastal regions of South America
- A) Labrador Current
 - B) California Current
 - C) Brazil Current
 - D) Humboldt Current

114. Anaximander was a ---- Philosopher.
 A) Greek B) Roman C) French D) German
115. Assertion [A] : The westerlies of Southern Hemisphere are stronger and constant in direction than their Northern Hemisphere counterpart
 Reason [R] : Broad expanse of ocean in the Southern Hemisphere rule out the development of stationary pressure system

- A) [A] and [R] are false
 B) [A] and [R] are true and [R] is the reason for [A]
 C) [A] is true but [R] is not the reason for [A]
 D) [A] is false but [R] is true

116. The vertical transfer of heat through the atmosphere occurs through the process
 A) Conduction B) Radiation C) Convection D) Advection

117. Match the following:
 Whittlesey's Agricultural Regions

AGRICULTURAL TYPE	REGIONS
a. Subsistence Crop and Livestock farming	1. North America, Argentina
b. Nomadic Herding	2. North-west USA, South-east Australia and New Zealand
c. Commercial Dairy Farming	3. Monsoon Asia, Northern Mexico
d. Commercial Grain Farming	4. India, North - East China

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

118. Which among the following is **not** true with regard to Ravenstein's Theory of Migration?
 A) Most migration is over short distances
 B) Every migration produce a counter current
 C) Urban dwellers are more migratory than rural dwellers
 D) Large towns grow more by migration than by natural increase.

119. The Golden Fiber Revolution in India pertains to the increased production and yield of :
 A) Oil seeds B) Coir C) Jute D) Cotton

120. Author of 'The Erdkunde':
 A) Alexander von Humboldt B) Carl Ritter
 C) Ellen Semple D) Arnold Guyot
