

# A

**16110**

**120 MINUTES**

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1. Kandal Pokkudan is notable for the conservation of
  - A) Biodiversity
  - B) Mangroves
  - C) Water bodies
  - D) Sundarbans
  
2. GAGAN is a part of the GPS developed by
  - A) Japan
  - B) Germany
  - C) India
  - D) Brazil
  
3. From the earth surface Stratosphere occurs at an altitude between
  - A) 5 and 60 km
  - B) 12 and 50 km
  - C) 30 and 75 km
  - D) 50 and 80 km
  
4. Line joining places having the same rainfall is called
  - A) Isohume
  - B) Isohel
  - C) Isohyets
  - D) Isoneph
  
5. Man and Biosphere Programme was launched by UNESCO in
  - A) 1971
  - B) 1979
  - C) 1986
  - D) 1992
  
6. The steel plant which was established before independence of India is
  - A) Rourkela
  - B) Bhadravathy
  - C) Bokaro
  - D) Bhilai
  
7. Balphakram which is the latest national park in India added in 2013 is in
  - A) Meghalaya
  - B) Odisha
  - C) Madhya Pradesh
  - D) Uttarakhand
  
8. Which of the following statements is CORRECT?
  - A) The first overview of urban geography was given by Raoul Blanchard
  - B) Burgess applied his concentric zone model to New York
  - C) Sector model of urban land use envisages residential suburb in the model
  - D) Zipf elaborated the concept of Rank-size rule
  
9. Identify the correct descending order sequence of countries in terms of their level of urbanization as per UN report on urbanization 2014
  - A) Argentina, Australia, United Kingdom, Germany
  - B) Australia, Germany, United Kingdom, Argentina
  - C) United Kingdom, Australia, Germany, Argentina
  - D) Germany, Australia, Argentina, United Kingdom

10. Which among the following is a rare climatic type under Koppen's classification?  
A) Aw B) BS  
C) ET D) As
11. Which of the following statements regarding the polar case of Zenithal stereographic projection is WRONG?  
A) The source of light is at the opposite end of the tangent plane  
B) Meridians are straight lines radiating from a common centre  
C) The shape is maintained and hence it is an orthomorphic projection  
D) Direction from the centre to any point is not correct
12. The cloud type that comes under the type 'clouds with vertical development' is  
A) Altocumulus B) Altostratus  
C) Cumulus D) Nimbostratus
13. Convective rainfall is most common in  
A) Temperate grasslands B) Equatorial regions  
C) Mediterranean regions D) Tropical highlands
14. Noamundi in India is significant for the production of  
A) Manganese B) Iron ore  
C) Bauxite D) Copper
15. Which of the following is significant for coal production in India?  
A) Gorumahisani B) Sundargarh  
C) Koraput D) Karanpura
16. Titagarh is a noted industrial centre for the production of  
A) Cement B) Aluminium  
C) Paper D) Fertilizer
17. Area that is considered as a possible peneplain is the  
A) Siberian plain B) Great plains of the USA  
C) Veldt of South Africa D) Deccan plateau
18. Quantitative revolution in Geography took place in  
A) 1940s and early 1950s B) 1950s and early 1960s  
C) 1970s D) Early 1980s
19. Which of the following statements is CORRECT?  
A) Ellen Semple is a staunch supporter of Neo-Determinism  
B) Mackinder outlined the concept of Heartland  
C) Vidal de la Blache explained more about Climatic Geomorphology  
D) Christaller developed his central place model taking southern France as his study area
20. The busiest airport in the world as on March 2015 is in  
A) Dubai B) London  
C) Atlanta D) Hong Kong

21. Dynamic Equilibrium theory was outlined by  
 A) L.C. King    B) Hack    C) Young    D) Sparks
22. Speleology refers to the study of  
 A) Underground caves    B) Sand dunes  
 C) Landslides    D) Periglacial areas
23. Which of the following statements regarding SPOT 7 is WRONG?  
 A) It was launched in 2013  
 B) It was launched by India's PSLV  
 C) It has a panchromatic resolution of 1.5 metres  
 D) Its locational accuracy is 10 metres
24. The revisit time for RESOURCESAT 2 is  
 A) 10 days    B) 8 days    C) 5 days    D) 3 days
25. Pleiades is a remote sensing satellite under the joint venture of  
 A) Germany & France    B) France & Italy  
 C) Japan & South Korea    D) USA & Canada
26. Shevky and Williams studied cities in terms of their  
 A) Economic areas    B) Social areas  
 C) Industrial areas    D) Population density
27. Jefferson outlined the concept of  
 A) Urban economic base    B) Site and situation  
 C) Conurbation    D) Primate city
28. The Lombardy industrial region is located in northern  
 A) France    B) Poland    C) Spain    D) Italy
29. The largest ship building country in the world is  
 A) Japan    B) Germany    C) South Korea    D) Russia
30. Nappe refers to a  
 A) Fold    B) Fault  
 C) Unconformity    D) Glacial action
31. Which of the following statements is WRONG?  
 A) India is the fourth largest producer of fish in the world  
 B) More than 60% of the fish production comes from inland fisheries  
 C) National Fisheries Development Board was established in 2006  
 D) Andhra Pradesh is the leading State in India for fish production
32. Which multipurpose project has Tikarpara and Naraj dams?  
 A) Bhakra Nangal    B) Damodar Valley Corporation  
 C) Hirakud    D) Tungabhadra

33. Which of the following statements is WRONG?  
 A) India is the tenth largest producer of hydel power in the world  
 B) Damodar Valley Corporation was established mainly for flood control  
 C) Indira Sagar Dam on Narmada river has the largest reservoir in India  
 D) Talaiya and Maithon dams are part of Damodar Valley Corporation
34. In Regional Planning Spread effect and Backwash effect are terms outlined by  
 A) Minshull B) Perroux C) Rostow D) Myrdal
35. Which among the following is NOT a Formal region?  
 A) Veldt B) Ice cap  
 C) City region D) Downs
36. Which of the following is NOT free GIS software?  
 A) MapInfo B) ILWIS  
 C) MapWindow D) GRASS
37. Aerial photography was first done through balloons in  
 A) Germany B) Russia C) France D) USA
38. The projection which is used by many for navigation is  
 A) Sinusoidal B) Molleweide  
 C) Bonne's D) Mercator
39. World Oceans Day is observed on  
 A) 5<sup>th</sup> June B) 8<sup>th</sup> June C) 22 June D) 8<sup>th</sup> July
40. Occurrence of ice in equatorial Andes is referred to as  
 A) Azonal process B) Extrazonal process  
 C) Polyzonal process D) Zonal process
41. Concept of morphogenetic regions was NOT outlined by  
 A) Budel B) Peltier  
 C) Chorley D) L.C.King
42. National Dairy Research Institute is located at  
 A) Anand B) Ahmedabad  
 C) Karnal D) Chandigarh
43. Which of the following cities has the maximum annual range of temperature?  
 A) Singapore B) Irkutsk  
 C) Lagos D) Perth
44. Which is a WRONG statement regarding thermal equator?  
 A) It refers to a zone of lowest mean temperature on the earth  
 B) It is usually said to be located nearer to 5° N latitude  
 C) Antarctic continent keeps low summer temperatures for southern hemisphere  
 D) Large landmass of northern hemisphere plays a dominant role in its location

45. Which of the following statements with regard to Demographic Transition Theory is CORRECT?
- A) High Stationary stage has High birth rate and Low death rate
  - B) Late Expanding stage has Declining death rate and Declining birth rate
  - C) Early Expanding stage experiences minimum growth of population
  - D) Declining stage is mainly due to High death rate
46. Optimum theory of population was more popularized by
- A) Mumford
  - B) Carr Saunders
  - C) Karl Marx
  - D) Doubleday
47. Logical combination of data involving union, intersection, complement and exclusion in GIS is called
- A) Geocoding
  - B) Boolean operations
  - C) Buffering
  - D) Calibration
48. When the Survey of India map No is 57/J/12/NE the R.F. of the map is
- A) 1: 5000
  - B) 1: 10000
  - C) 1: 25000
  - D) 1: 50000
49. Which among the following is a large scale map?
- A) Map of Asia
  - B) Map of Kerala
  - C) Map of Kannur district
  - D) Map of Thiruvananthapuram city
50. Identify the WRONG statement with regard to Rock weathering.
- A) Attack on all sides of the corners of block rock results in spheroidal weathering
  - B) In hydrolysis feldspar changes into clay
  - C) Chelation is a process of mechanical weathering
  - D) Unloading of pressure on the rocks cause spalling
51. The angle at which the slope of unconsolidated material stabilizes is known as
- A) Angle of depression
  - B) Angle of inclination
  - C) Angle of rest or repose
  - D) Angle of refraction
52. The latitudinal air circulation in the mid latitudes is called
- A) Hadley cell
  - B) Ferrel cell
  - C) Walker circulation
  - D) Southern Oscillation
53. The very strong cold wind blowing from northeast onto Adriatic region is known as
- A) Bora
  - B) Blizzard
  - C) Mistral
  - D) Chinook
54. Santa Ana is a local wind blowing in the region of
- A) Egypt
  - B) California
  - C) Gulf of Guinea
  - D) Southern Alps
55. The geological period when Deccan Trap formation happened is
- A) Cambrian
  - B) Triassic
  - C) Cretaceous
  - D) Tertiary

56. Which of the following does NOT have oldest rock formation in India?  
 A) Aravalli range                      B) Mysore plateau  
 C) Vindhya range                      D) Kumaon region
57. Identify the correct sequence of the given rivers from longest to smallest  
 A) Chaliyar, Pampa, Kallada, Chalakudi  
 B) Chalakudi, Chaliyar, Pampa, Kallada  
 C) Pampa, Chaliyar, Chalakudi, Kallada  
 D) Pampa, Kallada, Chalakudi, Chaliyar
58. World Water day is observed on  
 A) 3 March                                  B) 22 March  
 C) 8 June                                    D) 11 July
59. The venue of the United Nations Climate Change Conference 2015  
 A) London                                  B) Seoul  
 C) Paris                                      D) New Delhi
60. Which is a WRONG statement regarding Penck's Theory of Slope Replacement?  
 A) Any hill slope has an upper steep part and a lower gentler part  
 B) The steeper part of the slope is called Haldenhang or wash slope  
 C) Over a period of time the upper steeper slope is replaced by gentler lower slope  
 D) Gravity is not available for the lowest segment of the broken rock
61. In Koppen's classification Humid subtropics are given the symbol  
 A) As                      B) Cfa                      C) BW                      D) Df
62. Instrument that is used to measure only humidity in the atmosphere is  
 A) Anemometer                              B) Psychrometer  
 C) Hygrometer                                D) Barometer
63. Which of the following regions have dry summer and wet winter condition?  
 A) Northern Canada                      B) Central Chile  
 C) Southeastern China                    D) Central Germany
64. Montreal Protocol relates to  
 A) Protection of ice cover                B) Protection of ozone layer  
 C) Protection of biodiversity            D) Protection of mangroves
65. Mahathma Gandhi Marine National Park is established in  
 A) Pulicat Lake                              B) Chilka Lake  
 C) Lakshadweep islands                D) Andaman islands
66. The continent where average life expectancy is only around 60 years is  
 A) Africa                                      B) North America  
 C) Asia                                         D) Latin America
67. The Growth Pole Theory was propounded by:  
 A) Perroux                      B) Zipf                      C) Geddes                      D) Myrdal

68. JNNURM is an example for  
 A) Sectoral Planning                      B) Nodal planning  
 C) Perspective Planning                  D) Spatial Planning
69. One of the largest lift irrigation systems in Asia, Vishnupuri Prakalp, is located on  
 A) Krishna river                              B) Godavari river  
 C) Chenab river                                D) Brahmaputra river
70. The drainage pattern that is more common in intermontane basins is  
 A) Annular                                      B) Barbed  
 C) Centripetal                                 D) Dendritic
71. Geographer who considered “areal differentiation” as core theme of Geography is  
 A) Ritter                                         B) Hartshorne  
 C) Humboldt                                  D) Ratzel
72. *Explanation in Geography* was written by  
 A) Berry                      B) Chorley              C) Harvey              D) Morrill
73. Which of the following pair of authors and books is WRONG?  
 A) Haggett – *Locational Analysis in Human Geography*  
 B) Bunge – *Radical Geography*  
 C) Chorley – *Models in Geography*  
 D) Thornbury – *Principles of Geomorphology*
74. As per the Status of Forest Report 2013 the share of forest area in India is  
 A) 21.2%              B) 23.3%              C) 25.6%              D) 25.1%
75. Lorraine industrial region in France is more significant for the production of  
 A) Cotton textiles                              B) Woolen textiles  
 C) Steel    D) Automobiles
76. The Indian Institute of Horticultural Research is located in  
 A) Shimla              B) Srinagar              C) Bangalore              D) Nainital
77. The variable used by Christaller for hierarchy of central places under marketing principle is the number of  
 A) Hospitals                                      B) Telephones  
 C) Industries                                     D) Schools
78. Sector model of urban land use was outlined by  
 A) Burgess              B) Shevky              C) Hoyt              D) Harris
79. Concept of City Region was elaborated by  
 A) Dickinson                                      B) Geddes  
 C) Berry     D) Johnson
80. Pressure gradient will be high when the spacing of isobars is  
 A) Close              B) Even              C) Irregular              D) Wide

81. Identify the WRONG statement regarding atmospheric pressure.
- A) It refers to the force exerted by atmosphere over a unit area of the earth's surface
  - B) Normally it is expressed in the unit of millibar
  - C) The average atmospheric pressure is about 1013 mb
  - D) In the lower layers pressure remains constant up to an altitude of 5 km
82. Which of the following statements is WRONG?
- A) Pressure cells may be either of thermal or dynamic origin
  - B) Aleutian low is permanent over land area
  - C) Sub polar low pressure is a continuous belt in the southern hemisphere
  - D) Higher wind speed is the reason for 60° to 70° S to be called Shrieking Sixties
83. Which among the following is the deepest land locked and protected port?
- A) Khandla
  - B) Mangalore
  - C) Ennore
  - D) Visakhapatnam
84. In Kerala the district which is significant for sugarcane cultivation is
- A) Kozhikode
  - B) Kollam
  - C) Kottayam
  - D) Idukki
85. The largest producer of manganese in the world in 2014 is
- A) China
  - B) South Africa
  - C) Australia
  - D) India
86. Lake Maracaibo region which is significant for oil production is in
- A) Indonesia
  - B) Ukraine
  - C) Venezuela
  - D) Kazakhstan
87. The top two largest producers of wheat in the world in 2014 are
- A) China & India
  - B) USA & Canada
  - C) USA & Australia
  - D) Russia & Canada
88. Which of the following statements regarding ecosystem is WRONG?
- A) Primary producers are also called autotrophs
  - B) Carnivores are called saprotrophs
  - C) Omnivores complicate food web
  - D) In deep sea primary production is very low
89. Which of the following statements is CORRECT?
- A) Minamata disease was caused by air pollution
  - B) London Smog incident took place in 1972
  - C) Three Mile Island disaster is related to nuclear plant
  - D) Forest fires result in the evolution of primary ecological succession
90. Identify the term which is different from the other three
- A) Frost
  - B) Dew
  - C) Fog
  - D) Sleet



91. Which of the following is a source region for “cT” type air mass?  
 A) Central Brazil                      B) Central Asia  
 C) Central Australia                  D) Central Indian ocean
92. Share of 60+ age group of population to the total world population currently is about  
 A) 6%                      B) 8%                      C) 10%                      D) 12%
93. A Survey of India map is called quarter-inch sheet when the scale of the map is  
 A) 1:63360                      B) 1:50000  
 C) 1:250000                      D) 1:1000000
94. The technique which analyzes the spatial distribution pattern of settlements is  
 A) Multiple Dot method              B) Proportional spheres  
 C) Choropleth                      D) Nearest Neighbour Technique
95. Identify the statement which is WRONG, regarding Climograph.  
 A) Taylor devised Climograph  
 B) Wet Bulb temperature and Rainfall are taken as variables  
 C) The four corners are called Raw, Keen, Scorching and Muggy  
 D) The northwestern corner of the graph is Scorching
96. LISS is a sensor in  
 A) LANDSAT    B) SPOT                      C) INSAT                      D) IRS ID
97. In Electro Magnetic Spectrum the range  $0.4\mu$  to  $0.7\mu$  represents  
 A) Gamma ray                      B) Infra-red ray  
 C) Visible ray                      D) Ultraviolet ray
98. The author of the book *Geography: A Modern Synthesis* is  
 A) Brian J L Berry                      B) Peter Haggett  
 C) Richard Chorley                      D) Ackermann
99. As per World Population Prospects 2015 the highest growth rate of population is in  
 A) Asia                      B) Africa  
 C) Latin America                      D) Oceania
100. Which of the following is significant for cement industry in India?  
 A) Sawai Madhopur                      B) Renukoot  
 C) Mettur                      D) Kanpur
101. L.S. Bhat and V.L.S. Prakasa Rao proposed planning regions in  
 A) 1979                      B) 1972                      C) 1964                      D) 1959
102. Which of the following statements regarding 12<sup>th</sup> Plan in India is WRONG?  
 A) Twelfth Plan covers 2012 – 2017 period  
 B) It has a projected growth rate of 8.2%  
 C) National Rural Health Mission was launched in Twelfth plan  
 D) Twelfth Plan also envisages launching of National Groundwater Management Programme

103. As per World Urbanization Prospects- 2014 Revision, the second ranking city after Tokyo is  
 A) Shanghai B) Mumbai C) Delhi D) Lagos
104. Who among the following has not outlined model on urban population density?  
 A) Clark B) Smith C) Newling D) Tanner
105. Concept of Probabilism was elaborated by  
 A) Febvre B) Brunhes C) Buckle D) Spate
106. Who among the following belongs to French School of Geography?  
 A) Penck B) Gilbert C) Humboldt D) Blache
107. As per ancient Indian puranas, among the dwipas South west Asia is called  
 A) Kusa dwipa B) Puskara dwipa  
 C) Plaksa dwipa D) Jambu dwipa
108. In world tea production the country that ranks next to China and India in 2014 is  
 A) Sri Lanka B) Kenya C) Japan D) Turkey
109. In 2013 the largest producer of butter in the world is  
 A) Denmark B) Australia C) New Zealand D) India
110. Hachuring which is a method to represent relief in map was first attempted by  
 A) Munns B) Lehmann C) Foster D) Taylor
111. The correct number of Survey of India toposheet that is to the north of 57G/9 is  
 A) 57/G/8 B) 57/F/12  
 C) 57/H/8 D) 57/G/10
112. Match List I with List II and identify the correct answer using the given codes

List I  
 [Terms]

- I. Tombolo
- II. Zeugen
- III. Lapias
- IV. Slump

List II  
 [Process]

- 1. Underground water
- 2. Chemical weathering
- 3. Sea wave action
- 4. Mass wasting
- 5. Aeolian action

- |    | I | II | III | IV |
|----|---|----|-----|----|
| A) | 4 | 1  | 2   | 3  |
| B) | 3 | 5  | 1   | 4  |
| C) | 2 | 4  | 1   | 5  |
| D) | 5 | 2  | 3   | 4  |

113. Match List I with List II and identify the correct answer using the given codes

	<u>List I</u> [Terms]				<u>List II</u> [Associated with]
	I	II	III	IV	
I.	Mist				1. Cold wind
II.	Chinook				2. Precipitation
III.	Mistral				3. Condensation
IV.	Hail				4. Air mass
					5. Warm wind
	I	II	III	IV	
A)	4	5	2	3	
B)	4	2	1	3	
C)	2	4	1	5	
D)	3	5	1	2	

114. Match List I with List II and identify the correct answer using the given codes

	<u>List I</u> [Location]				<u>List II</u> [Climatic type]
	I	II	III	IV	
I.	Italy				1. Cfa
II.	Southeastern USA				2. Aw
III.	Norway				3. Cs
IV.	Kalahari				4. BW
					5. Df
	I	II	III	IV	
A)	3	2	1	4	
B)	4	1	2	3	
C)	2	4	1	5	
D)	3	1	5	4	

115. Match List I with List II and identify the correct answer using the given codes

	<u>List I</u> [Crop production]				<u>List II</u> [Significant district in Kerala]
	I	II	III	IV	
I.	Cashew				1. Palakkad
II.	Paddy				2. Kozhikode
III.	Spices				3. Kottayam
IV.	Coconut				4. Idukki
					5. Kannur
	I	II	III	IV	
A)	5	1	4	2	
B)	3	5	1	2	
C)	2	3	4	5	
D)	1	2	3	4	

116. Match List I with List II and identify the correct answer using the given codes

List I

[Location]

- I. Barmer
- II. Tummalapalle
- III. Khetri
- IV. Koraput

List II

[mineral]

- 1. Oil
- 2. Bauxite
- 3. Uranium
- 4. Manganese
- 5. Copper

	I	II	III	IV
A).	4	1	2	3
B).	3	2	1	4
C).	2	4	1	5
D).	1	3	5	2

117. Match List I with List II and identify the correct answer using the given codes

List I

[Theme]

- I. Exceptionalism
- II. Positivism
- III. Stop and Go Determinism
- IV. Time Geography

List II

[Main proponent]

- 1. Hagerstrand
- 2. Comte
- 3. Schaefer
- 4. Semple
- 5. Taylor

	I	II	III	IV
A).	4	1	2	3
B).	3	4	1	2
C).	3	2	5	1
D).	4	3	2	5

118. **Assertion [A] :** In Normal Cycle of erosion vertical erosion is greater than lateral erosion in the youthful stage

**Reasoning [R] :** Interfluvial ridges become summit points at the beginning of Maturity

- A) Both "A" and "R" are true and "R" is the correct explanation for "A"
- B) Both "A" and "R" are true but "R" is NOT the correct explanation for "A".
- C) "A" is True but "R" is False
- D) "A" is False but "R" is True

119. **Assertion [A] :** Tropical cyclones lose their intensity after landfall
- Reasoning [R] :** Tropical cyclones derive their energy through evaporation of water from the ocean surface
- A) Both “A” and “R” are true and “R” is the correct explanation for “A”  
B) Both “A” and “R” are true but “R” is NOT the correct explanation for “A”  
C) “A” is True but “R” is False  
D) “A” is False but “R” is True
120. **Assertion [A] :** Continental map of North America can be well shown on Conical Projection with two Standard Parallels
- Reasoning [R] :** Areas around standard parallels is distorted
- A) Both “A” and “R” are true and “R” is the correct explanation for “A”  
B) Both “A” and “R” are true but “R” is NOT the correct explanation for “A”.  
C) “A” is True but “R” is False  
D) “A” is False but “R” is True
-