1. The drainage pattern that generally reflects a uniform lithological structure is
   A) Centripetal   B) Radial
   C) Dendritic   D) Trellis

2. Which station has more diurnal range than the annual range of temperature?
   A) Singapore   B) New York
   C) London   D) Moscow

3. Which among the following does not get sun's vertical rays?
   A) Delhi   B) Bangalore
   C) Hyderabad   D) Mumbai

4. Identify the oldest geological formations in India among the following:
   A) Cuddapah series   B) Vindhya series
   C) Dharwar series   D) Gondwana series

5. When a person moves from west to east in Himalayas the correct sequence of passes he crosses through will be
   A) Nathu La, Zozi La, Thaga La, Shipki La
   B) Zozi La, Thaga La, Nathu La, Shipki La
   C) Zozi La, Shipki La, Thaga La, Nathu La
   D) Shipki La, Zozi La, Thaga La, Nathu La

6. The temperate Grasslands in Africa are known as
   A) Downs   B) Veldt
   C) Steppe   D) Prairies

7. Which of the following satellites has the best radiometric resolution?
   A) LANDSAT   B) CARTOSAT
   C) IKONOS   D) QUICKBIRD

8. Class I cities of India were further subdivided by Indian census 2001 from
   A) M1 to M4   B) M1 to M7
   C) M1 to M9   D) M1 to M12

9. Which among the following is categorized as high altitude clouds?
   A) Cirrus   B) Nimbus   C) Stratus   D) Cumulus

10. The boundary separating troposphere from stratosphere is called
    A) Tropopose   B) Mesopause
    C) Plimsoll line   D) Stratopause

11. As per Wegener the separation of South America from Africa took place during
    A) Carboniferous   B) Triassic
    C) Jurassic   D) Permian

12. In natural rubber production of the world in 2008, India ranks
    A) Second   B) Fourth   C) Sixth   D) Eighth

13. Grand Banks is located in
    A)   Northeast Atlantic   B)   Northwest Atlantic
    C)   Northeast Pacific   D)   Northwest Pacific

14. Identify the correct statement with regard to atmospheric pressure.
    A)   Atmospheric pressure is directly proportional to temperature
    B)   The Aleutian low pressure is of thermal origin
    C)   The average atmospheric pressure is around 1013 millibar
    D)   Subtropical regions have a continuous belt of high pressure

15. The most important states in the production of groundnut are
    A)   Gujarat & Andhra Pradesh   B)   Gujarat & Tamilnadu
    C)   Tamilnadu & Karnataka   D)   Andhra Pradesh & Tamilnadu

16. Intergovernmental panel on Climate Change was constituted in the year
    A)   1986   B)   1988
    C)   1991   D)   1984

17. In an ecosystem the term Homeostasis refers to
    A)   Natural Balance   B)   Succession
    C)   Energy transfer   D)   Trophic level

18. Which of the following regions has the highest population concentration in USA?
    A)   California   B)   Northwest Pacific area
    C)   Texas   D)   Northeast Atlantic area

19. Wind gap is a term associated with
    A)   Aeolian landforms   B)   Coastal process
    C)   Underground water   D)   River capture

20. Beaufort scale of wind speed ranges from
    A)   0 to 8   B)   0 to 10
    C)   0 to 12   D)   1 to 12

21. Which of the following local wind is nicknamed as "The Doctor"?
    A)   Khamsin   B)   Scirocco   C)   Harmattan   D)   Loo

22. Malaprabha is a major tributary for River
    A)   Krishna   B)   Godavari
    C)   Narmada   D)   Thunga Bhadra

23. The Indian National Centre for Ocean Information Services is located at
    A)   Mangalore   B)   Goa
    C)   Hyderabad   D)   Vishakapatnam

24. Which of the following countries leads in Bauxite production?
    A)   Australia   B)   Brazil
    C)   India   D)   China

25.   The number of satellites in the GPS system is
        A)   16   B)   19   C)   22   D)   24

26.   Megalopolis was a term first used by
        A)   Harris   B)   Berry
        C)   Aurousseau   D)   Gottman

27.   The decomposers in an ecosystem are also called
        A)   Saprotrophs   B)   Autotrophs
        C)   Sere   D)   Biotope

28.   Erdkunde was a term used by
        A)   Ritter   B)   Kant
        C)   Richthofen   D)   Humboldt

29.   Which among the following is not a formal region?
        A)   Selva   B)   Taiga
        C)   Steppe   D)   Hinterland

30.   Which among the following is not a greenhouse gas?
        A)   Methane   B)   Hydrogen
        C)   Nitrous oxide   D)   Ozone

31.   The term Horse Latitudes usually indicates the latitudes between
        A)   28° and 32° N   B)   15° and 18° N
        C)   45°and 49° S   D)   45° and 49° N

32.   As on 2009 the number of Biosphere reserves in India is
        A)   8   B)   10   C)   12   D)   15

33.   Shivasamudram Hydro-electric Project is in
        A)   Karnataka   B)   Tamil Nadu
        C)   Maharastra   D)   Andhra Pradesh

34.   Which type of settlements is common in Deserts?
        A)   Dry point settlements   B)   Piedmont settlements
        C)   Wet point settlements   D)   Linear settlements

35.   The R.F. for Survey of India quarter inch sheet is
        A)   1: 25000   B)   1: 50000
        C)   1:63360   D)   1: 250000

36.   Lines joining places of equal travel time from a given centre is called
        A)   Isochrone   B)   Isohyet
        C)   Isopleth   D)   Isohaline

37.   The seasonal migration between mountains and plains by man and animals in the
        Central Asian region is called
        A)   Nomadism   B)   Pastoralism
        C)   Transhumance   D)   Immigration

38. Identify the wrongly matched pair of books and authors
    A) Explanation in Geography – Harvey
    B) Geography: A Modern Synthesis – Haggett
    C) Theoretical Geography – Berry
    D) Perspectives on the Nature of Geography – Hartshorne

39. Bundelkhand region is an example for
    A) Macro region   B) Meso region
    C) Micro region   D) Minor region

40. Manikiran in India is famous for harnessing
    A) Wind energy   B) Geothermal energy
    C) Solar energy   D) Tidal energy

41. During Second Five Year Plan a Steel plant was established with the collaboration of United Kingdom at
    A) Rourkela   B) Durgapur
    C) Bhilai   D) Bokaro

42. Mistral cold wind passes through the valley of
    A) Rhine   B) Danube   C) Rhone   D) Seine

43. The normal date of onset of monsoon at Mumbai is
    A) 10th June   B) 15th June
    C) 20th June   D) 1st July

44. In the Recumbent type of fold the angle of the fold axis is
    A) Horizontal   B) Vertical   C) 60 °   D) 45 °

45. Identify the wrong statement with regard to Troposphere.
    A) Most of the weather phenomena occur in Troposphere
    B) There is Normal lapse rate of temperature in this layer
    C) Ozone layer in Troposphere helps blocking of ultraviolet rays from sun
    D) Extension of Troposphere is more at the equator than at the poles

46. Which among the following is significant for coal production in India?
    A) Jaduguda   B) Talcher
    C) Ankaleshwar   D) Khetri

47. The biggest oil discovery in last 20 years was made at Barmer in
    A) Gujarat   B) Assam
    C) Rajasthan   D) Andhra Pradesh

48. The Indian Institute of Tourism and Travel Management is located at
    A) Goa   B) Gwalior   C) Shimla   D) Jaipur

49. Baku oilfields are located near the
    A) Black Sea   B) Barents Sea
    C) Yellow Sea   D) Caspian Sea

50. Dairying is a major economic activity in
    A) Northwest Europe   B) Northeast Europe
    C) Northwest USA   D) Northeast Africa

51. On maps Hachuring is a method to represent
    A) Population density   B) Relief
    C) Settlements   D) Age structure

52. Similar Triangle method is best suited for the enlargement and reduction of
    A) Roads and Rivers   B) Water bodies
    C) Mountains   D) Settlements

53. Zuider Zee refers to the largest area of
    A) Desertification   B) Land reclamation
    C) Land degradation   D) Oil Pollution

54. In 2009 the growth rate of world population is estimated to be around
    A) 1.2 %   B) 2.5%   C) 2.1%   D) 2.3%

55. The first person to attempt a division of world into natural regions on climate is
    A) Miller   B) Trewertha
    C) Herbertson   D) Critchfield

56. Growth Pole theory was outlined by Perroux in
    A) 1949   B) 1959   C) 1969   D) 1979

57. In the Demographic Transition Model the Early Expanding Stage has
    A) High Birth rate and High Death rate
    B) High Birth rate and Low Death rate
    C) High Birth rate and Declining Death rate
    D) Declining Birth rate and Declining Death rate

58. The amount of generation of power from solar energy by the National Solar Mission by 2020 is
    A) 5000 MW   B) 20000 MW
    C) 30000 MW   D) 50000 MW

59. An International Transshipment Container Terminal is being built at
    A) Vallarpadam   B) Vishakapatnam
    C) Mundra   D) Ratlam

60. In soil profile zone of illuviation refers to
    A) 'A' horizon   B) 'B' horizon
    C) 'C' horizon   D) 'D' horizon

61. Which of the following measures the amount of water vapour in g/kg of air?
    A) Moisture index   B) Specific Humidity
    C) Relative humidity   D) Absolute humidity

62. The critical temperature at which an unsaturated air becomes saturated is called
    A) Wet Bulb temperature
    B) Wet Adiabatic Lapse rate
    C) Dew point
    D) Condensation

63. Which among the following is not associated with karst land form?
    A) Blind Valley
    B) Till
    C) Uvalas
    D) Karren

64. When there is horizontal movement of rocks along a fault line in the ocean floor it is called
    A) Graben
    B) Transform fault
    C) Reverse fault
    D) Horst

65. Which of the following is an example for forms of condensation?
    A) Mist
    B) Rainfall
    C) Sleet
    D) Hail

66. In Survey of India toposheets of 1: 50000 scale, the number of map to the western side of 59 D / 10 will be
    A) 59 D / 9
    B) 59 D / 11
    C) 59 D / 6
    D) 59 D / 14

67. In normal Atlas maps physiography is usually shown by
    A) Spot heights
    B) Contours
    C) Hill shading
    D) Isochromatic method

68. Three Mile Island disaster is associated with
    A) Water pollution
    B) Nuclear Reactor
    C) Air Pollution
    D) Natural hazard

69. Highest sex-ratio among the districts of Kerala as per 2001 Census is in
    A) Kollam
    B) Alappuzha
    C) Pathanamthitta
    D) Kottayam

70. Who among the following does not belong to the School of Subaerial Denudation?
    A) Powell
    B) Davis
    C) Penck
    D) Gilbert

71. Identify the correctly matched pair of ideas and authors
    A) Unity in Diversity – Blache
    B) Principle of Terrestrial Unity -- Ritter
    C) Pediplanation – W.M. Davis
    D) Areal differentiation – Hartshorne

72. Identify the wrong statement from the following:
    A) New towns and satellite belts are called Neutral regions
    B) Stamp attempted the first regional division of India based on physiography
    C) Sen Gupta and Galina divided India into Population Resource regions
    D) Metropolitan area is an example for Macro region

73. The concept of Dynamic Equilibrium was outlined by
    A) Gilbert
    B) Chorley
    C) Hack
    D) Wood

74. Identify the correct order in terms of increasing wavelength
   A) Visible, Ultraviolet, Infrared, Microwaves
   B) Visible, Microwaves, Ultraviolet, Infrared
   C) Ultraviolet, Infrared, Visible, Microwaves
   D) Ultraviolet, Visible, Infrared, Microwaves

75. In 2008-2009 the State which has registered the highest growth rate in Indian exports is
   A) Gujarat   B) Maharashtra
   C) Tamil Nadu   D) Kerala

76. The Western Dedicated Freight Corridor Project in India links
   A) Mumbai & Jaipur   B) Mumbai & Tughlakabad
   C) Mumbai & Kochi   D) Jaipur & Kochi

77. Identify the correctly matched pair of region – major industry.
   A) Pittsburgh – Textiles   B) Osaka – Steel
   C) Ulsan – Chemicals   D) Toulouse -- Aircraft

78. Which of the following countries is not important for sugarcane?
   A) Brazil   B) India   C) Indonesia   D) Kenya

79. Which of the following sensor is used in IRS satellites?
   A) TM   B) HRV   C) LISS   D) MSS

80. In which place IRS data collection and storage is in operation?
   A) Dehra Dun   B) Bangalore
   C) Shadnagar   D) Ahmedabad

81. Who among the following outlined Rank size rule?
   A) Berry   B) Clark   C) Dickinson   D) Zipf

82. Sanson- Flamstead projection is also called
   A) Polyconic projection   B) Cylindrical equal area projection
   C) Sinusoidal projection   D) Conical projection

83. In which of the projections distortion is more in the case of polar regions?
   A) Cylindrial equal area   B) Zenithal
   C) Conical   D) Molleweide

84. Tribal Area Development Planning is an example for
   A) Formal region   B) Ad hoc region
   C) Functional region   D) Axial region

85. In which area we will be able to witness Primary Ecological Succession?
   A) New Volcanic islands   B) Mountain peaks
   C) Dense forests   D) Estuaries

86. The Kyoto Protocol was initially adopted in
   A) 1997   B) 2003   C) 2005   D) 2007

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87. Who is considered as the Father of Human Geography
    A)   Brunhes   B)   Blache   C)   Bowman   D)   Berry

88. The concept of Determinism was not supported by
    A)   Buckle   B)   Ratzel   C)   Semple   D)   Febvre

89. Which of the following represents an Azonal process?
    A)   River   B)   Glacier
    C)   Sea wave action   D)   Underground water

90. Which of the following is not a part of Temperate Cyclone?
    A)   Warm Sector   B)   Eye
    C)   Cold Front   D)   Warm front

91. The port which was built under Public Private Partnership in the east coast is at
    A)   Kakinada   B)   Krishnapatnam
    C)   Machilipatnam   D)   Nagapatnam

92. In 2008-2009,the most important item of export from India was
    A)   Gems & Jewellery   B)   Textiles and Readymade garments
    C)   Handicrafts   D)   Leather products

93. According to the Theory of Parallel Retreat of Slopes the steepest part of the
    slope is known as
    A)   Wash slope   B)   Scarp
    C)   Debris slope   D)   Basal slope

94. Which of the following cities has a Regional Remote Sensing Service Centre?
    A)   Jodhpur   B)   Jaipur   C)   Hyderabad   D)   Kolkata

95. SPOT is a remote sensing satellite launched by
    A)   France   B)   USA   C)   Japan   D)   Russia

96. The Primate pattern of cities was explained by
    A)   Mumford   B)   Jefferson   C)   Taylor   D)   Nelson

97. Which of the following statements is correct?
    A)   Aurousseau outlined the urban land use model first
    B)   Tanner indicated Density crater in his model of urban population density
    C)   In Christaller's central place theory K = 4 under marketing principle
    D)   Dickinson outlined City and City region concept in detail

98. Which among the following projections is most suitable for navigation?
    A)   Polyconic   B)   Lambert
    C)   Bonne's   D)   Mercator

99. Spate outlined the principles of the concept of
    A)   Probabilism   B)   Positivism
    C)   Pragmatism   D)   Behavioralism

100. Isotropic surface was the base for the model developed by
    A)   Myrdal   B)   Christaller
    C)   Weber   D)   Perroux

101. "Cf" in Koppen's system of climatic classification represents
    A)   St.Lawrence type   B)   Subtropical humid type
    C)   Continental climatic type D)   Mediterranean type

102. In terms of total volume of trade the most important sea route is
    A)   Suez Canal route   B)   North Atlantic Sea route
    C)   Panama Canal route   D)   Cape Sea route

103. The Trans Siberian Railway links St. Petersberg with
    A)   Novosibirsk   B)   Irkutsk
    C)   Vladivostok   D)   Verkhoyansk

104. The standard database query system in a relational database system is called
    A)   SQL   B)   TIGER   C)   SCSI   D)   GRS 80

105. Which of the following is not a GIS software package?
    A)   MapInfo   B)   GRAM   C)   ArcInfo   D)   ERDAS

106. Which of the following is NOT applicable to Central Business District?
    A)   Maximum residential population
    B)   High Land value
    C)   Intensive Land use
    D)   Maximum accessibility

107. Method of slope determination was not developed by
    A)   Wentworth B)   Robinson   C)   Smith   D)   Foster

108. Identify the map with the largest scale.
    A)   Map of India   B)   Map of Kerala
    C)   Map of Kannur District   D)   Map of Cochin city

109. Which of the following statements is not correct?
    A)   The temporal resolution of IRS IC is 24 days
    B)   INSAT 4B is a Sun Synchronous satellite
    C)   Oceansat-2 was launched on 2009
    D)   RISAT is the first Radar Imaging Satellite launched by India

110. Identify the correct descending sequence of States based on population size as per 2001 Census
    A)   Andhra Pradesh, Tamil Nadu, Karnataka, Kerala
    B)   Andhra Pradesh, Karnataka, Tamil Nadu, Kerala
    C)   Karnataka, Andhra Pradesh, Tamil Nadu, Kerala
    D)   Tamil Nadu, Karnataka, Andhra Pradesh, Kerala

111. Identify the correct statement from the following:
    A) Zonal concept was first applied to Geomorphology
    B) The term areal differentiation was coined by Carl Sauer
    C) Stop and Go Determinism was outlined by Griffith Taylor
    D) Diffusion idea and models were first developed by Chorley

112. Shevky and Bell applied Social Area Analysis first to
    A) San Francisco region
    B) Boston region
    C) Chicago region
    D) Greater London

113. Match the following:

Terms/ Concept	Authors
a. Haldenhang	1. Wegener
b. Tethys	2. Peltier
c. Pediplanation	3. Penck
d. Morphogenetic region	4. L. C. King

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

114. Match the following:

Terms	Phenomenon
a. Vernal Equinox	1. Precipitation
b. Foehn	2. September 22
c. Hygroscopic nuclei	3. Warm local wind
d. Warm sector	4. Temperate cyclone

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

115. Match the following:

Railway zones	Headquarters
a. East Central Railway	1. Bilaspur
b. Southeast Central Railway	2. Jabalpur
c. Southwestern Railway	3. Hajipur
d. West Central Railway	4. Hubli

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

USE THE FOLLOWING OPTIONS AS ANSWER KEY FOR ALL THE QUESTIONS OF ASSERTION/REASON TYPE.

A) *Both [A] and [R] are true and [R] is the correct reason*

B) *Both [A] and [R] are true but [R] is Not the correct reason*

C) *[A] is true but [R] is false.*

D) *[A] is false but [R] is true.*

116. **Assertion [A] :** In Indian Census Class I cities are grouped from M1 to M7
     Reasoning [R] : Indian Census takes only size of population for defining an urban area

117. **Assertion [A] :** Secondary Population Density rim is observed in Western cities
     Reasoning [R] : The development of suburbs is predominant in Western cities

118. **Assertion [A] :** In a seismograph S waves are recorded first
     Reasoning [R] : S waves travel only through solid matter

119. **Assertion [A] :** Thermal inversion is more common in intermontane basins during winter nights
     Reasoning [R] : Cold air descends from the top along the slope and collects in the basin

120. **Assertion [A] :** Temperate cyclone has warm and cold fronts at its maturity
     Reasoning [R] : Occlusion refers to the dissipation of temperate cyclone

………….