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(Write Roll Number from left side exactly as in the Admit Card)

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Signature of Invigilator

Question Booklet Series

X

PAPER-II

Question Booklet No.

(Identical with OMR Answer Sheet Number)

Subject Code : 13

GEOGRAPHY

Time : 2 Hours

Maximum Marks: 200

Instructions for the Candidates

- Write your Roll Number in the space provided on the top of this page as well as on the OMR Sheet provided.
- At the commencement of the examination, the question booklet will be given to you. In the first 5 minutes, you are requested to open the booklet and verify it:
 - To have access to the Question Booklet, tear off the paper seal on the edge of this cover page.
 - Faulty booklet, if detected, should be got replaced immediately by a correct booklet from the invigilator within the period of 5 (five) minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.
 - Verify whether the Question Booklet No. is identical with OMR Answer Sheet No.; if not, the full set is to be replaced.
 - After this verification is over, the Question Booklet Series and Question Booklet Number should be entered on the OMR Sheet.
- This paper consists of One hundred (100) multiple-choice type questions. All the questions are compulsory. Each question carries *two* marks.
- Each Question has four alternative responses marked: (A) (B) (C) (D). You have to darken the circle as indicated below on the correct response against each question.

Example: (A) (B) (C) (D), where (C) is the correct response.
- Your responses to the questions are to be indicated correctly in the OMR Sheet. If you mark your response at any place other than in the circle in the OMR Sheet, it will not be evaluated.
- Rough work is to be done at the end of this booklet.
- If you write your Name, Phone Number or put any mark on any part of the OMR Sheet, except in the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means, such as change of response by scratching or using white fluid, you will render yourself liable to disqualification.
- Do not tamper or fold the OMR Sheet in any way. If you do so, your OMR Sheet will not be evaluated.
- You have to return the Original OMR Sheet to the invigilator at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are, however, allowed to carry question booklet and duplicate copy of OMR Sheet after completion of examination.
- Use only Black Ball point pen.
- Use of any calculator, mobile phone, electronic devices/gadgets etc. is strictly prohibited.
- There is no negative marks for incorrect answer.

1. Which of the following is *not* among the basic factors in E. L. Ullman's transport systems model?

- (A) Complimentarity
- (B) Intervening opportunities
- (C) Transferability
- (D) Distance between two points

2. Inclusive growth is the agenda of economic development in the future, but the strategy of inclusive growth *does not* focus on:

- (A) promotion of ancillary industry in industrial regions
- (B) reduction of poverty among backward castes
- (C) diversification of livelihood for tribal population
- (D) enhancement of educational opportunities

3. According to Visaria and Visaria (1996):

Assertion (A): India will face severe crisis of water during 2050.

Reason (R): The crisis may easily be managed with the judicious use of water in agricultural and industrial field.

- (A) (A) is true but (R) is not the proper reasoning of (A)
- (B) (A) is true and (R) is the proper reasoning of (A)
- (C) (A) is conditionally true and (R) is the most effective reasoning to the problem of (A)
- (D) Both (A) and (R) is false

4. Name the forest in which teak and sal are the most dominant species:

- (A) Tropical Evergreen Forest
- (B) Tropical Deciduous Forest
- (C) Boreal Forest
- (D) Temperate Forest

5. Which of the following can be considered as a direct impact of global warming?

- (A) Increase in Green House Gases
- (B) Coastal Erosion
- (C) Coral Bleaching
- (D) Volcanic Eruption

6. The following are the possible causes for monsoon delay in India:

(1) El Nino, (2) Tibetan anticyclone, (3) Presence of Westerly Jet Stream south of the Himalaya during summer, (4) Shifting of ITCZ

- (A) 1 and 3 are true
- (B) 2 and 4 are true
- (C) 1, 2 and 3 are true
- (D) 1 and 4 are true

7. *Assertion (A):* Flood is the most destructive of natural hazards in the Ganga-Brahmaputra plains.

Reason (R): Due to population pressure, more people tend to live in flood prone areas.

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is correct

8. Plants behaving as xerophyte at one season and as hydrophyte at another are known as:

- (A) Epiphytes
- (B) Saprophytes
- (C) Tropophytes
- (D) Heliotropophytes

9. Although, hydroelectric power has led to economic progress around the world, it has created serious ecologic problems.

Which one of the following statements is not correct?

- (A) To produce hydroelectric power, large areas of forest and agricultural lands are submerged.
- (B) The silting of the reservoirs reduces the life of the hydroelectric power installations.
- (C) The resettlement of displaced persons is generally not a serious issue as there are many options.
- (D) The use of rivers for navigation and fisheries becomes difficult once the water is dammed to generate electricity.

10. UNCLOS stands for:

- (A) United Nations Climate Law over Sea
- (B) United Nations Convention on Law and Order of Sea
- (C) United Nations Convention on the Law of the Sea
- (D) United Nations Convention on the Land over the Sea

11. The process of a primary autotrophic succession is completed in which of the following correct sequential steps?

- (A) Invasion → Nudation → Reaction → Competition → Stabilisation
- (B) Nudation → Invasion → Competition → Reaction → Stabilisation
- (C) Competition → Reaction → Invasion → Stabilisation → Nudation
- (D) Reaction → Invasion → Nudation → Competition → Stabilisation

12. The following two lists state the temperature conditions and associated vegetation classes. Match the two lists.

<i>List-I</i> (Temperature)	<i>List-II</i> (Vegetation Types)
(a) Megatherms	(i) Tropical Deciduous
(b) Mesotherms	(ii) Tropical Rainforest
(c) Microtherms	(iii) Alpine
(d) Hekistotherms	(iv) Mixed coniferous

Codes:

	(a)	(b)	(c)	(d)
(A)	(i)	(ii)	(iii)	(iv)
(B)	(ii)	(iv)	(i)	(iii)
(C)	(ii)	(i)	(iv)	(iii)
(D)	(iv)	(ii)	(iii)	(i)

13. Shape and spread of statistical data under univariate analysis is better judged through:

- (A) Central Tendency
- (B) Deviation Measures
- (C) Hypothesis Testing
- (D) Skewness and Kurtosis

14. Pelagic oozes cover about:

- (A) 30% of the world ocean floor area
- (B) 40% of the world ocean floor area
- (C) 50% of the world ocean floor area
- (D) 60% of the world ocean floor area

15. Maximum crop diversity is conventionally found in which of the following regions?

- (A) Hilly Area
- (B) Plain Area
- (C) Plateau Area
- (D) Peri-urban Area

16. In which of the following weather conditions does the negative lapse rate of temperature operate?

- (A) Adiabatic change in temperature
- (B) Adiabatic inversion of temperature
- (C) Surface inversion of temperature
- (D) Isothermal change of temperature

17. 'Doppler Radar' is used for the purpose of:

- (A) Extended range weather forecasting
- (B) Medium range weather forecasting
- (C) Long range weather forecasting
- (D) Nowcasting

18. Geographically the most extensive fogs in India during winter are mainly:

- (A) Radiation fogs
- (B) Advective fogs
- (C) Frontal fogs
- (D) Hill fogs

19. The temperature characteristics at a warm occluded front can be described as:

- (A) The air behind the cold front is colder than the cool air it is overtaking.
- (B) The air in front of the cold front is warmer than the cool air overtaking it.
- (C) The air behind the cold front is warmer than the cool air it is overtaking.
- (D) The air in front of the cold front is cooler than the cold air overtaking it.

20. First nuclear energy plant in India was established in:

- (A) Narora
- (B) Tarapur
- (C) Kaiga
- (D) Kalpakkam

21. In order of decreasing area of EEZs, which one of the following sequences is correct?

- (A) USA, France, Russia, Australia
- (B) France, USA, Australia, Russia
- (C) Russia, Australia, USA, France
- (D) USA, Australia, Russia, France

22. Water waves are termed 'shallow' when:

- (A) Water depth is less than $\frac{1}{20}$ th of wavelength
- (B) Water depth is less than $\frac{1}{10}$ th of wavelength
- (C) Water depth is less than $\frac{1}{5}$ th of wavelength
- (D) Wave depth is less than $\frac{1}{4}$ th of wavelength

23. In oceans, the Rule of Constant Proportions relates to:

- (A) Benthic biota
- (B) Tidal propagation in enclosed bays
- (C) Salinity
- (D) Oxygen isotope ratio

24. Potential density of seawater is primarily dependent on:

- (A) Salinity and Temperature
- (B) Depth of water
- (C) Mixing of warm and cold currents at a given locality
- (D) Pressure of air and water columns

25. In an El Nino year, the Western Pacific warm pool moves towards the east and this modifies the:

- (A) Hadley Circulation
- (B) Walker Circulation
- (C) Ferrel Circulation
- (D) Langmuir Circulation

26. At 25 °C air is saturated with 20 g of water vapour per kg of air. If the air contains 15 g of water vapour per kg at the same temperature the relative humidity is:

- (A) 15%
- (B) 30%
- (C) 60%
- (D) 75%

27. Which one of the following is the real characteristics of exurb?

- (A) A low density, low population based settlement at suburbs
- (B) A low density, low population based settlement beyond the suburbs
- (C) A high density, low population based settlement at the outer core of urban unit
- (D) A high density, high population based settlement beyond suburbs

28. Who among the following took the first leadership to spread Quantitative Techniques in Geography outside USA?

- (A) H. McCarty
- (B) T. Hägerstrand
- (C) W. Bunge
- (D) J. Q. Stewart

29. Population potential of an area as an extension of social physics is propounded by:

- (A) R. J. Chorley
- (B) T. Hägerstrand
- (C) B. Berry
- (D) J. Q. Stewart

30. If the basic—non-basic ratio is equal to 1 (one) in an urban unit, it indicates:

- (A) Recession of economy
- (B) Growth of economy
- (C) Stagnation of economy
- (D) High growth of economy

31. Which one of the following is a correct match?

Tribal Population (in %)

State

- | | |
|--------------|-------------------|
| (a) High | (i) Odisha |
| (b) Medium | (ii) Punjab |
| (c) Low | (iii) West Bengal |
| (d) Very Low | (iv) Manipur |

Codes:

- | | | | | |
|-----|------|------|-------|-------|
| | (a) | (b) | (c) | (d) |
| (A) | (iv) | (i) | (ii) | (iii) |
| (B) | (iv) | (i) | (iii) | (ii) |
| (C) | (iv) | (ii) | (i) | (iii) |
| (D) | (iv) | (i) | (ii) | (iii) |

32. Zero population growth occurs in a country when:

- (A) births plus immigration equal deaths plus emigration
- (B) births are equal to deaths
- (C) in-migration is equal to out-migration
- (D) in-migration is equal to deaths

33. Which of the following is a marginal sea, in true sense, in the Indian Ocean?

- (A) Red Sea
- (B) Arabian Sea
- (C) Bay of Bengal
- (D) Andaman Sea

34. Who proposed the term 'Tricontinentalism' in relation to Post-colonialism?

- (A) Edward Said
- (B) Homi Bhabha
- (C) Gayatri Chakravorty
- (D) Robert Young

35. In his theory of Social Ecology, Kropotkin developed the idea of social interaction within the social groups under the principle of:

- (A) Exploitation
- (B) Competition
- (C) Dominance
- (D) Mutual aid

36. Assertion (A): Humboldt rejected the idiographic paradigm in favour of establishing the unity of nature.

Reason (R): Humboldt considered regions merely as tools to study the unity of diversity and unity of nature at a convenient scale.

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (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.

37. What percentage of data of a normal distribution approximately lies between (+) and (–) one standard deviation?

- (A) 66
- (B) 46
- (C) 33
- (D) 23

38. Match the geomorphic features with the geomorphic processes.

<i>Geomorphic feature</i>	<i>Geomorphic process</i>
(a) Cockpit	(i) Coastal process
(b) Moulin	(ii) Fluvial process
(c) Runnel	(iii) Glacial process
(d) Talik	(iv) Karstic process
	(v) Periglacial process

Codes:

- | | | | | |
|-----|------|-------|-------|------|
| | (a) | (b) | (c) | (d) |
| (A) | (iv) | (iii) | (i) | (v) |
| (B) | (v) | (i) | (ii) | (iv) |
| (C) | (iv) | (iii) | (i) | (ii) |
| (D) | (iv) | (v) | (iii) | (i) |

39. Which among the following is *not* a stage of social development as per Comte's proposition?

- (A) Theological
- (B) Metaphysical
- (C) Positive
- (D) Postmodern

40. As per Kuhn's model of disciplinary development, the first 'Paradigm Phase' is immediately preceded by which phase?

- (A) Pre-paradigm
- (B) Crisis
- (C) Professionalisation
- (D) Revolution

41. If variability of rainfall is to be measured, which of the following techniques will be used?

- (A) Coefficient of Correlation
- (B) Coefficient of Regression
- (C) Coefficient of Variation
- (D) Coefficient of Multiple Correlation

42. Match *List-I* with *List-II*

<i>List-I</i>	<i>List-II</i>
(a) χ^2 test	(i) consistency of the variables
(b) Coefficient of Variation	(ii) test of significance
(c) t-test	(iii) skewed distribution
(d) Rank correlation	(iv) sample size less than 30

Codes:

- | | | | | |
|-----|------|-------|-------|-------|
| | (a) | (b) | (c) | (d) |
| (A) | (i) | (ii) | (iii) | (iv) |
| (B) | (iv) | (i) | (ii) | (iii) |
| (C) | (ii) | (iii) | (i) | (iv) |
| (D) | (ii) | (iv) | (iii) | (i) |

43. $p\text{-value} \leq 0.05$ indicates:

- (A) a strong evidence against null hypothesis
- (B) a weak evidence against null hypothesis
- (C) a strong evidence against alternative hypothesis
- (D) a weak evidence against alternative hypothesis

[Please Turn Over]

44. Wider dispersion can best be represented by:

- (A) Standard Deviation
- (B) Fractiles
- (C) Factorial Ecology
- (D) Coefficient of Variation

45. Concept of 'Locational Triangle' for the location of industries was introduced by which of the following scholars?

- (A) Lösch
- (B) Palander
- (C) Weber
- (D) Smith

46. Match the industries in *column-I* with their location in *column-II* and mark the correct answer.

Column-I

Column-II

- | | |
|---------------------|------------------|
| (a) Cotton textile | (i) Dhariwal |
| (b) Woollen textile | (ii) Rishra |
| (c) Jute textile | (iii) Coimbatore |
| (d) Silk textile | (iv) Mysore |

Codes:

- | | | | | |
|-----|-------|-------|-------|-------|
| | (a) | (b) | (c) | (d) |
| (A) | (i) | (iii) | (iv) | (ii) |
| (B) | (ii) | (i) | (iii) | (iv) |
| (C) | (iv) | (ii) | (i) | (iii) |
| (D) | (iii) | (i) | (ii) | (iv) |

47. Which of the following organisations prepares Indian Topographical maps?

- (A) NATMO
- (B) Survey of India
- (C) TTK, Madras
- (D) Ministry of Defence, GOI

48. Select the correctly sequenced landform features in a glaciated valley from higher to lower altitudes.

- (A) Tarn, Paternoster lake, Kettle lake, Moraine-dammed lake
- (B) Tarn, Paternoster lake, Moraine-dammed lake, Kettle lake
- (C) Paternoster lake, Tarn, Moraine-dammed lake, Kettle lake
- (D) Kettle lake, Tarn, Paternoster lake, Moraine-dammed

49. *Assertion (A)*: Coasts tend to become sandy to muddy as tidal range changes from micro to macro.

Reason (R): In tropical coasts, mangrove vegetation is conducive of deposition of fine sediments.

- (A) Both (A) and (R) are true and (R) is the correct explanation.
- (B) Both (A) and (R) are true, but (R) is not a correct explanation.
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

50. What is the spatial resolution of AWiFS sensor?

- (A) 23.5 m
- (B) 36 m
- (C) 56 m
- (D) 188 m

51. Which among the following DEMs is available free from the Internet and is contributed by India?

- (A) CartoDEM
- (B) SRTM DEM
- (C) ALOS DEM
- (D) ASTER DEM

52. The Universal Transverse Mercator zone number of West Bengal is:

- (A) 43
- (B) 44
- (C) 45
- (D) 46

53. Consider the following statements:

'Water spout' is a weather element associated with,

- (1) A tornado
- (2) Intense low pressure system similar to a tornado but develops over sea / large water-body.
- (3) A cumulonimbus cloud-base with whirling cone of dark grey cloud projected downward.

Which of the above statements are correct as given below?

- (A) 1 and 2
- (B) 1 and 3
- (C) 2 and 3
- (D) 1, 2 and 3

54. Consider the following statements—

Blocking anticyclone is associated with:

- (1) Occurrence in both winter and summer months in NW Europe
- (2) Prolonged cold dry season in Western Europe
- (3) Frequent depressions with exceptionally fine weather in summer

Which of the statements are correct?

- (A) 1 and 2
- (B) 1 and 3
- (C) 2 and 3
- (D) 1, 2 and 3

55. *Assertion (A)*: ITCZ moves northward during summer in the northern hemisphere.

Reason (R): Low pressure system is developed over the continental landmass.

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true and (R) is *not* the correct explanation of (A).
- (C) (A) is true but (R) is false.
- (D) (A) is false but (R) is true.

56. Dendrochronology is useful to study the paleoclimatic trends of which of the following epochs?

- (A) Miocene
- (B) Pliocene
- (C) Pleistocene
- (D) Holocene

57. Among the following values of hypsometric integral, which one denotes maximum erosion of a drainage basin area down to its base level?

- (A) 0.18
- (B) 0.44
- (C) 0.51
- (D) 0.91

58. Tertiary period had five epochs. Select the correct order in which these epochs appear in the Geological time scale from ancient to recent.

- (A) Paleocene – Oligocene – Miocene – Eocene – Pliocene
- (B) Paleocene – Pliocene – Oligocene – Miocene – Eocene
- (C) Paleocene – Eocene – Oligocene – Miocene – Pliocene
- (D) Oligocene – Paleocene – Miocene – Eocene – Pliocene

59. *Assertion (A)*: In arid and semi-arid region sheet flood is an important land forming processes.

Reason (R): Arid and semi-arid region experience high intensity short duration rainfall.

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (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.

60. Formation of potholes in river beds is an example of:

- (A) Hydration
- (B) Erosion
- (C) Plucking
- (D) Corrasion

61. Which among the following features is a product of volcanic eruption?

- (A) Lapilli
- (B) Lapiés
- (C) Laccolith
- (D) Ladang

62. Which of the following statements best describes the movement along a normal fault?

- (A) Hanging wall moves downward relative to the foot wall.
- (B) Hanging wall moves horizontal relative to the foot wall.
- (C) Hanging wall moves angular relative to the foot wall.
- (D) Hanging wall moves upward relative to the foot wall.

63. Higher elevation of the mid oceanic ridge relative to the flanking sea-floor is best explained by:

- (A) Pratt's theory of isostasy
- (B) Airy's theory of isostasy
- (C) Positive gravity anomaly
- (D) Negative gravity anomaly

64. Among the planation surfaces, the deep weathering process is best linked to:

- (A) Peneplains
- (B) Pediplains
- (C) Panplains
- (D) Etchplains

65. What would be the correct pattern of nesting of central places in the marketing principle under Christaller's Central Place Theory?

- (A) 1, 2, 3, 4, 5 . . .
- (B) 1, 3, 6, 9, 12 . . .
- (C) 1, 3, 6, 12, 24 . . .
- (D) 1, 3, 9, 27, 81 . . .

66. Which one of the following is suitable in understanding crop specialization as well as crop diversity?

- (A) Crop Combination
- (B) Cropping Intensity
- (C) Cropping Efficiency
- (D) Crop Yield

67. Which of the following pairs is *incorrectly* matched?

- (A) Tangsa : Tripura
- (B) Adi : Arunachal Pradesh
- (C) Meena : Rajasthan
- (D) Munda : Jharkhand

68. 'Ethnoburb' is used to refer to residential patterns of Asian migrants to the cities of:

- (A) Canada, New Zealand, UK and USA
- (B) Australia, Canada, New Zealand and UK
- (C) Australia, Canada, New Zealand and USA
- (D) Australia, New Zealand, South Africa and USA

69. The origin of the conceptual interplay between "place-work-folk", a key concept in social geography is found in the works of:

- (A) Vidal de la Blache.
- (B) Redfield and Singer
- (C) Friedrich Ratzel.
- (D) Frederic le Play

70. Cultivation of fuel wood with crop is known as:

- (A) Viticulture
- (B) Silviculture
- (C) Arboriculture
- (D) Pomuculture

71. In the Weberian Theory of industrial location, the term 'agglomeration' is best described by:

- (A) concentration of people
- (B) clustering of labour and raw materials
- (C) clustering of productive activities and people for mutual advantage
- (D) aggregation of market forces

72. The great sociologist who held the view that “education doesn’t bring about social change; rather the social change results into an educational change” was:

- (A) McDougal
- (B) Aristotle
- (C) Durkheim
- (D) Dewey

73. Clustering of rural settlements in an area can be determined by using:

- (A) Nearest Neighbour Analysis
- (B) Christaller’s Central Place Theory
- (C) Cluster Analysis
- (D) Rank-size Rule

74. The term ‘ecumene’ is applied to mean:

- (A) The areas temporarily settled by people.
- (B) The permanently inhabited areas of the earth’s surface.
- (C) The uninhabited areas of the world.
- (D) The areas deserted by people.

75. E. Bylund’s theory has to do with which of the following aspects of rural settlement?

- (A) Expansion
- (B) Morphology
- (C) Planning
- (D) Ecology

76. Who among the following proposed the multiple nuclei model of city growth?

- (A) Harris and Ullmann
- (B) Homer Hoyt
- (C) E.W. Burgees
- (D) Von Thünen

77. What are the underlying characteristics of WTO?

- (A) It facilitates economic co-operation between different countries.
- (B) It acts as an umbrella institution that regulates agreements concluded in the Uruguay round for promotion of free international trade.
- (C) It helps in development of the less developed countries.
- (D) It resolves disputes among world trade blocks.

78. Identify the correct statement with reference to the first phase of globalisation in the Nineteenth Century:

- (A) London was the global, hegemonic centre of political-economic power.
- (B) Wall Street dominated the economic areas.
- (C) Washington DC was the centre of political power.
- (D) There was an intricate connection between the eastern economies.

79. Which among the following locational factors is most important in the case of ‘footloose industries’?

- (A) Capital
- (B) Raw material
- (C) Market
- (D) Labour

80. One needs to find out how much area is eroded or accreted in an administrative unit by a river using bankline polygons of different years in GIS. The procedure one would follow is called:

- (A) Comparison analysis
- (B) Overlay analysis
- (C) Layer-level analysis
- (D) Kriging analysis

81. The orbital altitude of a GPS navigation satellite is:

- (A) 10,200 km
- (B) 15,200 km
- (C) 20,200 km
- (D) 36,200 km

82. The cultural logic of late capitalism is often used to explain the nature of:

- (A) Humanistic Geography
- (B) Modernism
- (C) Postmodernism
- (D) Cultural Turn

83. In a standard FCC, vegetation appears red because:

- (A) Red band is shown in green.
- (B) Green band is shown in red.
- (C) Defence-related restrictions prevent disclosure of actual colours.
- (D) NIR band is shown in red.

84. The flow analysis and gravitational analysis are two well known methods for delineation of:

- (A) Formal Region
- (B) both Formal and Functional Region
- (C) Functional Region
- (D) Social Region

85. The Great Andaman group of islands in the north is separated from the Nicobar group in the south by the:

- (A) Five Degree Channel
- (B) Eight Degree Channel
- (C) Twelve Degree Channel
- (D) Ten Degree Channel

86. *Assertion (A):* The Indus and the Zangbo rivers follow a long distance parallel to the Himalayas before crossing the mountain.

Reason (R): The rivers have taken the weakest part of the Himalayas at its syntaxial bends to cross the mountain.

- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are correct 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.

87. Given below are an *Assertion (A)* and a *Reason (R)*. Find out the correct answer from the given codes:

Assertion (A): Urban agglomerations and million plus cities in India are growing very rapidly.

Reason (R): Small and satellite towns are not developed in a planned way to reduce the growth of the big cities.

- (A) (A) is true but (R) is not correct.
- (B) Both (R) and (A) are true but (R) is not the only cause of (A).
- (C) (R) is true but (A) is not correct.
- (D) Both (R) and (A) are true and (R) is the correct explanation for (A).

88. The river Cauvery flows through the states of:

- (A) Kerala, Karnataka, and Tamil Nadu
- (B) Goa, Karnataka, and Tamil Nadu
- (C) Telangana, Tamil Nadu, and Karnataka
- (D) Andhra Pradesh, Karnataka, and Tamil Nadu

89. Which of the following regions was proposed by John Friedman to explain the Core Periphery Model?

- (A) Core Region and Upward Transition Region
- (B) Downward Transition Region
- (C) Resource Frontier Region
- (D) It includes (A), (B) and (C)

90. Which of the following countries is not included among the ten members of ASEAN?

- (A) Brunei Darussalam
- (B) Papua New Guinea
- (C) Vietnam
- (D) Phillippines

91. The Beaufort scale is related to:

- (A) Velocity of Winds
- (B) Temperature
- (C) Humidity
- (D) Rainfall

92. Which one of the following landforms is *not* associated with wind erosion?

- (A) Zeugen
- (B) Yardang
- (C) Mesa
- (D) Seif

93. In satellite images, radiometric resolution is related to:

- (A) Number of grey values
- (B) Number of spectral values
- (C) Number of bands
- (D) Number of colour values

94. Which of the following group of rivers originates from the mountains of Himachal Pradesh?

- (A) Beas, Ravi, and Chenab
- (B) Ravi, Chenab, and Jhelum
- (C) Satluj, Beas, and Ravi
- (D) Chenab, Beas, and Jhelum

95. Social development process is primarily directed towards one among the following, identify it.

- (A) Removal of poverty and hunger
- (B) Economic growth with distributive justice
- (C) Integrated women and child development
- (D) Integrated rural development

96. Match the following:

- | | |
|----------------|----------------------|
| (a) Krishna | (i) Nagarjun Sagar |
| (b) Satluj | (ii) Tehri |
| (c) Mahanadi | (iii) Bhakhara Nagal |
| (d) Bhagirathi | (iv) Hirakud |

Codes:

- | | | | | |
|-----|------|-------|-------|------|
| | (a) | (b) | (c) | (d) |
| (A) | (i) | (iii) | (iv) | (ii) |
| (B) | (i) | (ii) | (iii) | (iv) |
| (C) | (ii) | (iii) | (i) | (iv) |
| (D) | (i) | (iii) | (ii) | (iv) |

97. Who heads the National Commission on Population in India?

- (A) President
- (B) Prime Minister
- (C) Chief Justice of Supreme Court
- (D) Registrar General of India

98. Which of the following coastal areas is known for mining of 'Rare Earth'?

- (A) Maharastra coast
- (B) Karnataka coast
- (C) Andhra coast
- (D) Odisha coast

99. The relationship among power structure, the environment and economic inequalities is termed as:

- (A) Political Ecology
- (B) Gerrymandering
- (C) Equality of opportunity
- (D) Authoritative biopower

100. Match *List-I* with *List-II*

List-I

(Climatic type)

- (a) Tropical Monsoon
- (b) Mediterranean
- (c) Tropical Hot Desert
- (d) Arctic

List-II

(Symbol after Köppen)

- (i) Csa / Csb
- (ii) Am
- (iii) ET/ EF
- (iv) Bwh

Codes:

- | | | | | |
|-----|------|-------|-------|-------|
| | (a) | (b) | (c) | (d) |
| (A) | (i) | (ii) | (iii) | (iv) |
| (B) | (ii) | (iii) | (iv) | (i) |
| (C) | (iv) | (ii) | (i) | (iii) |
| (D) | (ii) | (i) | (iv) | (iii) |

Space for Rough Work

