

Paper - II
Geography

Booklet Code

A

Test Booklet No.

SUBJECT CODE : 1 7

Roll No. :

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(Figures as per admission card)

Roll No. (in words) : _____

OMR Sheet No. :

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Name and Signature of Invigilator/s

Signature : _____

Name : _____

Time : 2 Hours

Maximum Marks : 200

Number of Pages in this Booklet : 20

Number of Questions in this Booklet : 100

Instructions for the Candidates

1. Write your roll number in the space provided on the top of this page.
2. This paper consists of hundred (100) multiple-choice type of questions.
3. At the commencement of examination, the test booklet will be given to you. In the first 5 minutes, you are requested **To Open the Booklet and Compulsorily Examine it as Below:**
 - (i) To have access to the Test Booklet, tear off the paper seal on the edge of the cover page. Do not accept a booklet without sticker seal or open booklet.
 - (ii) Tally the number of pages and number of questions in the booklet with the information printed on the cover page. Faulty booklets due to pages/questions missing or duplicate or not in serial order or any other discrepancy should be got replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the Test Booklet will be replaced nor any extra time will be given.
 - (iii) After the verification is over, the Test Booklet Number should be entered in the OMR Sheet and the OMR Sheet Number should be entered on this Test Booklet.
4. Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the circle as indicated below on the correct response against each item.

Example : (A) (B) ● (D)
where (C) is the correct response.
5. Your responses to the questions are to be indicated in the **OMR Sheet kept inside this Booklet**. If you mark at any place other than in the circles, the OMR Sheet will not be evaluated.
6. Read the instructions given in OMR Sheet carefully. Fill the Booklet Code of Paper-II in OMR Sheet **Compulsorily**.
7. Rough Work is to be done in the end of this booklet.
8. If you write your name or put any mark on any part of the OMR Answer Sheet, except for the space provided for the relevant entries, which may disclose your identity, you will render yourself liable to disqualification.
9. You have to return the OMR answer Sheet to the invigilators at the end of the examination compulsorily and must NOT carry it with you outside the Examination Hall.
10. You can take away test booklet and carbon copy of OMR Answer Sheet after the examination.
11. **Use only Blue/Black Ball point pen.**
12. **Use of any calculator, electronic gadgets or log table, etc. is prohibited.**
13. **There is no negative mark for incorrect answer.**

1. The word 'Ecology' was coined by :
 - (A) A. G. Tansley
 - (B) James
 - (C) Ernst Haeckel
 - (D) Odum
2. Which of the following is used as biological indicator of Sulphur Dioxide pollution?
 - (A) Bryophytes
 - (B) Algae
 - (C) Pseudomonas
 - (D) Lichen
3. The bottom area where production is less than respiration in a pond ecosystem is termed as :
 - (A) Profundal Zone
 - (B) Tidal Zone
 - (C) Benthic Zone
 - (D) Limnetic Zone
4. The Detritus Food Chain (DFC) begins with _____. It is made up of decomposers which are _____, organism, mainly _____.
 - (A) Detritus, heterotrophic, earthworm
 - (B) Dead organic matter, heterotrophic, fungi and bacteria
 - (C) Fungi and Bacteria, autotrophic, dead organic matter
 - (D) Grass, heterotrophic, fungi and bacteria
5. Which of the following is false?
 - I. Quantity of biomass in a trophical level at a particular period is called standing crop.
 - II. The energy content in a trophic level is determined by considering few individuals of species in that trophic level.
 - III. Rate of succession is faster in the secondary succession.
 - IV. Phytoplankton are the pioneers in aquatic succession.
 - (A) Only II
 - (B) I and II
 - (C) I and III
 - (D) Only III
6. In which year Ganga Action Plan was launched ?
 - (A) 1990
 - (B) 1983
 - (C) 1985
 - (D) 1981
7. The phenomenon of marble cancer is due to :
 - (A) CFCs
 - (B) Fog
 - (C) Soil particles
 - (D) Acid rain

8. _____ industries in Khrew-Khnomoh area of Kashmir has wreaked havoc affecting saffron growth by increase in soil contamination and air pollution.
- (A) Petrochemicals
(B) Plastic
(C) Cement
(D) Automobile
9. A comprehensive Geospatial data sharing policy was recommended in :
- (A) Digital Policy of J&K.
(B) Information Technology Policy, J&K
(C) Environmental Policy, J&K
(D) Tourism Policy, J&K
10. Match List-I and List-II and select the correct answer from the codes given below:
- List-I**(Sustainable Development Goal-SDG)
- P SDG 10
Q SDG 13
R SDG 14
S SDG 15
- List-II** (Related with)
- I Climate change
II Life of Land
III Reduced Inequalities
IV Life below water
- Codes:**
- | | P | Q | R | S |
|-----|-----|-----|-----|----|
| (A) | I | II | III | IV |
| (B) | II | III | I | IV |
| (C) | III | II | IV | I |
| (D) | III | I | IV | II |
11. By ' Spatial data', we mean data that have :
- (A) Complex values
(B) Graphic values
(C) Positional values
(D) Decimal values
12. Study the following characteristic and state to which of the following do they represent?
- I. High storage requirement
II. Potential for better accuracy
- (A) Only Raster
(B) Only Vector
(C) Both Raster and Vector
(D) Neither Raster nor Vector
13. Deliberate, Purposive and Judgement Samplings are which type of sampling?
- (A) Simple Random Sampling
(B) Complex Random Sampling
(C) Probability Sampling
(D) Non Probability Sampling
14. What is an example of active remote sensing ?
- (A) Landsat 8
(B) LISS - III
(C) LISS - IV
(D) SAR

15. By using which of the following formula the degrees of sectors in a pie diagram can be calculated ?

- (A) $\frac{\text{Actual value of the subdivision}}{\text{Sum of values}} \times 360^\circ$
- (B) $\frac{\text{Sum of values}}{\text{Actual value of the subdivision}} \times 360^\circ$
- (C) $\frac{\text{Given value}}{\text{Total value}} \times 360^\circ$
- (D) $\frac{\text{Actual value}}{\text{Minimum value}} \times 360^\circ$

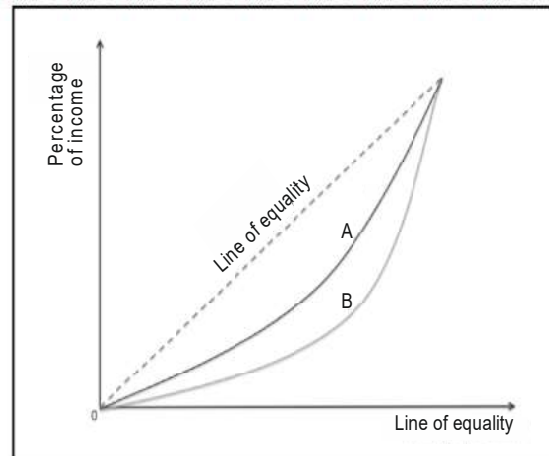
16. Which of the following space is related to Geographical Information System?

- (A) Euclidean Space
- (B) Ramanujan Space
- (C) Pythagorian Space
- (D) Raster Space

17. Who was the first person to use the term 'Variance' and also developed an elaborate theory concerning ANOVA?

- (A) Snedecor
- (B) R.A. Fisher
- (C) Karl Pearson
- (D) Mann Whitney

18. The given diagram shows the relationship between Population and Income. State which of the following statements is true?



- (A) The Ginni Coefficient of A would be lower than that of B.
- (B) The Ginni Coefficient of A would be higher than that of B.
- (C) The Ginni Coefficient of both A and B would be same.
- (D) From the graph Ginni Coefficient cannot be analysed.

19. How much inclination must be provided in a tilted photograph?

- (A) 3°
- (B) 13°
- (C) 20°
- (D) 34°

20. Given below are two statements, one labelled as Assertion (a) and the other labelled as Reason (r). Read the statements and choose the correct answer from the coders given below:

Assertion (a): Nominal scale is simply a system of assigning symbols to events in order to label them.

Reason (r) : Median is the only possible measure of central tendency which can be employed to arithmetic operation.

- (A) Both (a) and (r) are true and (r) is correct explanation of (a)
- (B) Both (a) and (r) are true and (r) is not correct explanation of (a)
- (C) (a) is true, but (r) is false
- (D) (a) is false, but (r) is true
21. The marks obtained by 20 students in viva-voce are given below in the table. Find out the Arithmetic Mean.

Marks obtained (x)	No. of Students (f)	(fx)
2	4	8
5	5	25
8	3	24
10	5	50
12	2	24
15	1	15

- (A) 3.6
- (B) 6.8
- (C) 7.3
- (D) 13.6

22. The Indian drainage system is broadly divided into two major drainage systems on the basis of the 'orientation to the sea'. These include: Bay of Bengal drainage and Arabian Sea drainage. They are separated from each other by which of the following divide?

- (A) Ganga – Jhelum
- (B) Satluj — Yamuna
- (C) Beas – Ravi
- (D) Chenab — Brahmaputra

23. Most of the river deltas in India have one of the following along their seaward edge.

- (A) Exotic Plantation
- (B) Coral Reef
- (C) Mangrove Forest
- (D) Semi Deciduous Broad Leaf Forest

24. Given below are two statements, one labelled as Assertion (a) and the other labelled as Reason (r). Read the statements and choose the correct answer from the codes given below :

Assertion (a) : ITCZ is an intensive low pressure area covering the entire northern plains from Northwest to Southeast viz from Jalandhar (Punjab) to Kolkata (West Bengal)

Reason (r): From mid march to end of may the vertical rays of the Sun gradually moves northwards to Tropic of Cancer.

- (A) Both (a) and (r) are true and (r) is correct explanation of (a)
- (B) Both (a) and (r) are true and (r) is not correct explanation of (a)
- (C) (a) is true, but (r) is false
- (D) (a) is false, but (r) is true

25. Deserts, fertile plains and thickly forested mountains are the characteristic features of which of the following parts of India ?
- (A) North eastern Frontiers
 - (B) Western border adjoining Pakistan
 - (C) Coromandel Coast
 - (D) South western border along Arabian sea
26. The states of Jammu Kashmir, Himachal Pradesh, Uttarakhand and Bihar are prone to earthquakes. What are the factors responsible for it?
- I. The Himalayas have not yet attained isostatic equilibrium.
 - II. Himalayas are tremendously huge landmass having great height.
 - III. Himalayas are seismically stable land mass.
 - IV. Pushing of Indian Plate in the north-east direction.
- (A) I and II are correct
 - (B) II and III are correct
 - (C) III and IV are correct
 - (D) I and IV are correct
27. State which of the following characteristics reflect Indian Ocean Dipole (IOD) ?
- (A) The warm air from Tibet moves southwards and descends in the Indian Ocean and strengthens high pressure belt.
 - (B) It is an irregular or a periodic oscillation of Sea Surface Temperature (SST) in which the western Indian Ocean becomes alternatively warmer and colder than the eastern part of the ocean.
 - (C) When there is high pressure over Equatorial South Pacific there is low pressure over the equatorial south Indian Ocean and vice versa.
 - (D) The tropical Indian Ocean is bounded by land in its three sides in a warm pool.
28. Choose the right sequence of the Himalayan Mountain ranges in north to south order :
- (A) Karakoram- Ladakh- Zaskar- Pir Panjal – Shiwalik
 - (B) Pir Panjal – Shiwalik – Ladakh – Hindukush
 - (C) Pir Panjal- Kailash – Ladakh
 - (D) Hindukush – Pir Panjal – Kailash - Shiwalik

29. Given below are two statements, one labelled as Assertion (a) and the other labelled as Reason (r). Read the statements and choose the correct answer from the code given below:

Assertion (a): India was the first developing country to adopt a bold population policy in 1951-52 yet its achievements in controlling its numbers have been far from satisfactory.

Reason (r): India is a fairly large sized country with wide horizon as well as vertical inequalities in the level of its socio-economic development and hence the demographic scene.

- (A) Both (a) and (r) are true and (r) is correct explanation of (a)
- (B) Both (a) and (r) are true and (r) is not correct explanation of (a)
- (C) (a) is true, but (r) is false
- (D) (a) is false, but (r) is true
30. Which is the most expensive spice produced in India?
- (A) Cardamom
- (B) Saffron
- (C) Clove
- (D) Coriander

31. Match List-I and List-II and select the correct answer from the codes given below:

List-I (Characteristics)

- P Humid Climate, Undulating Terrain, Crops- Tea, Jute, Pineapple, Banana
- Q Sub Humid Climate, Warm Summer, Cold Winter, Coarser Soil Texture, Crops- Wheat, Oilseeds, Pulses, Mango
- R Lesser Rainfall (50-100 cm), most part covered by Black Soil, Crops-Soya, Pulses, Oilseeds, Cotton
- S Scarce Water and Drought Prone, Hard Granite – Gneiss Basement Crops – Ragi, Millets

List-II (Agro Climatic Zones)

- I Aravalli- Malwa Uplands
- II Upper Ganga plain
- III Deccan Interior
- IV North-eastern Region

Codes:

- | | P | Q | R | S |
|-----|-----|-----|----|-----|
| (A) | II | I | IV | III |
| (B) | I | III | II | IV |
| (C) | IV | II | I | III |
| (D) | III | IV | I | II |

32. Civil Registration is an important tool for studying :
(A) Civil Laws
(B) Dynamics of Population
(C) Birth of Children
(D) Registration of Vehicles
33. What vital events are registered under Civil Registration Scheme?
(A) Birth, Death
(B) Marriage, Divorce, Adoption
(C) Birth, Marriage, Death
(D) Birth, Marriage, Divorce, Adoption, Death
34. State which of the following statements reflects the positive effect of migration?
I. Migration is age and sex selective.
II. Migration increases global poverty crisis.
III. Migration affects population composition.
(A) I and II are correct
(B) I and III are correct
(C) II and III are correct
(D) I, II and III are correct
35. Isomorphic relationship of population movements based on 'Newton's Law of Gravitation' was propounded by :
(A) Stewart
(B) Zipf
(C) Malthus
(D) Castro
36. A condition in which the population neither grows nor declines is known as a stage of _____.
(A) Zero population growth
(B) Unstable population
(C) Early declining stage
(D) Late declining stage
37. Ambala, Jalandhar, Mhow, Babina, Udhampur are the examples of _____ towns.
(A) Administrative
(B) Educational
(C) Garrison
(D) Cultural
38. Which one of the following is not one of the conditions in India for a settlement to be classified as Urban?
(A) Population of more than 5000 persons.
(B) Population density exceeding 400 persons per square km.
(C) Covering an area of not less than 5 square km.
(D) At least 75% of the male working population engaged in non-agricultural activities

39. Which of the following statements is not correct?
- (A) Physical configuration plays an important role in the dispersion of rural settlements
- (B) Features of dispersion can be explained by reference to human activities and cultural traits
- (C) Dispersion of settlement is a reflection of restrictions
- (D) Social structure influences dispersion of settlements
40. _____ is useful in objectively measuring inter-village settlement spacing.
- (A) Concentric Zone Theory
- (B) Multiple Nuclei Theory
- (C) Nearest Neighbour Analysis
- (D) Sector Theory
41. What does the term "Megalopolis", coined by Jean Gottmann in 1957 connote?
- (A) Million City
- (B) Conurbation
- (C) Large City
- (D) Union of Conurbations
42. Which association is the largest single market in the world?
- (A) EU
- (B) OPEC
- (C) SAFTA
- (D) ASEAN
43. Green Revolution began in Punjab, Haryana and Western Uttar Pradesh with the use of HYV seeds in _____ cultivation.
- (A) Rice
- (B) Wheat
- (C) Cotton
- (D) Grain
44. A formal region is a geographical area which is uniform in terms of selected criteria and linked with the concept of Geographical_____.
- (A) Dualism
- (B) Possibilism
- (C) Determinism
- (D) Probabilism
45. Match List-I and List-II and select the correct answer from the codes given below:
- List-I (Type of Density)**
- P Physiological
- Q Comparative
- R Economic
- S Critical
- List-II (Proponent)**
- I Vincent
- II Trewartha
- III Allan
- IV Simon
- Codes :**
- | | P | Q | R | S |
|-----|-----|----|----|-----|
| (A) | II | I | IV | III |
| (B) | III | II | IV | I |
| (C) | IV | I | II | III |
| (D) | III | IV | I | II |

46. Globalisation has resulted in:
- Change of scale in human processes
 - Transnational corporation
 - End of cold war
 - Flow of money from country to country is discouraging
- I, II & III
 - II, III, & IV
 - I, II & IV
 - I, II, III & IV
47. Railways' Integral Coach Factory (ICF) is located at :
- Patiala
 - Perambur
 - Chattaranjan
 - Bengaluru
48. Match List-I and List-II and select the correct answer from the codes given below:
- List-I (Sectors)**
- Primary Sector
 - Secondary Sector
 - Tertiary Sector
 - Quaternary Sector
- List-II (Economic Activities)**
- Business Organization
 - Cultivation
 - Handloom Textiles
 - Transport Services
- Codes :**
- | | P | Q | R | S |
|-----|----|-----|-----|----|
| (A) | I | II | III | IV |
| (B) | II | III | IV | I |
| (C) | II | III | I | IV |
| (D) | IV | III | II | I |
49. Losch explained his theory of industrial location on _____ competition.
- Perfect
 - Monopolistic
 - Fluctuating
 - Stagnating
50. In the 1970's and 1980's which major shift occurred in methods of production and labour processes?
- Development of industries in South America
 - Shift from Fordism to New Fordism.
 - Shift towards raw material oriented industries
 - Concentration of industries in a few pockets of Europe and USA
51. A region will experience growth, if the demand for its export increases. State in which of the condition Region will not grow?
- The per capita income in the exogenous sector is rising and the income elasticity of demand for the exports is high
 - Depletion or exhaustion in other areas producing the same item
 - If its income elasticity is low or negative, the decrease in demand associated with a growing population is lesser than the increase of per capita income
 - Improved transferred facilities have lowered total delivery costs making marginal producers in other areas unable to compete

52. What is the approximate interval between spring tide and neap tides?
- (A) 7 days
 - (B) 15 days
 - (C) 20 days
 - (D) 30 days
53. Which of the following is not correctly matched?
- (A) Fringing reef – Boat channel
 - (B) Coral reef – Natural defence line
 - (C) Great barrier reef – Australia
 - (D) Furafuti Atoll — Indonesia
54. Which of the following ocean tides is caused by non-astronomical forces?
- (A) Spring tides
 - (B) Neap tides
 - (C) Red tides
 - (D) Perigean tides
55. Which of the following was made International year of the Ocean?
- (A) 1994
 - (B) 1992
 - (C) 1995
 - (D) 1998
56. Which of the following is correct average depth of world oceans?
- (A) 3800 m
 - (B) 4800 m
 - (C) 2800 m
 - (D) 3500 m
57. Which of the following statements is not true about Mid-Atlantic Ocean Ridge?
- (A) It is known as Delphin Rise in the north
 - (B) It stretches from Iceland to South Georgia Island
 - (C) It extends for a length of about 14,450 km
 - (D) It is associated with shallow-focus earthquakes
58. Who of the following described the nature and origin of Gulf Stream?
- (A) Peter Matyr
 - (B) Christopher Columbus
 - (C) Pedro Alvare Cabral
 - (D) Leonardo da Vinci
59. Sargasso Sea belongs to which of the following?
- (A) South Atlantic Gyre
 - (B) North Atlantic Gyre
 - (C) South Pacific Gyre
 - (D) North Pacific Gyre

60. Given below are two statements, one labelled as Assertion (a) and the other labelled as Reason (r). Read the statements and choose the correct answer from the codes given below:
- Assertion (a):** There is rich harvest of fish off the Coast of Peru.
- Reason (r):** There is upwelling of cold water from below off the Coast of Peru.
- (A) Both (a) and (r) are true and (r) is correct explanation of (a)
- (B) Both (a) and (r) are true and (r) is not correct explanation of (a)
- (C) (a) is true, but (r) is false
- (D) (a) is false, but (r) is true
61. Tsunamis are usually not noticed as massive ocean waves because :
- (A) They travel through shallow waters of continental shelves
- (B) Their epicentre is far away from the coast in deep ocean waters
- (C) They have a low magnitude and intensity
- (D) They move and die in deep ocean waters
62. Which racial group migrated to Nepal by way of Tibet, Sikkim and Assam?
- (A) Caucasoid
- (B) Australoid
- (C) Mongoloid
- (D) Negroid
63. The _____ at times, generates data relevant to Social Geography.
- (A) NDA
- (B) NSSO
- (C) NATMO
- (D) RBI
64. Arrange the following north-eastern states on the basis of share of ST population in the state's total population (2011) starting from the highest.
- I. Assam
- II. Manipur
- III. Mizoram
- IV. Tripura
- (A) III, II, IV, I
- (B) II, III, I, IV
- (C) IV, III, I, II
- (D) I, III, IV, II
65. Given below are two statements, one labelled as Assertion (a) and the other labelled as Reason (r). Read the statements and choose the correct answer from the codes given below:
- Assertion (a):** Countries based on dissimilar religious formations would eventually confront each other in situations of war in an attempt to subjugate each other.
- Reason (r):** Theocratic countries generally get involved in crusades.
- (A) Both (a) and (r) are true and (r) is correct explanation of (a)
- (B) Both (a) and (r) are true and (r) is not correct explanation of (a)
- (C) (a) is true, but (r) is false
- (D) (a) is false, but (r) is true

66. Despite centuries of shared history and interaction, the caste-based peasant society and the tribes of India have retained their intrinsic characteristics, best manifested in their ethnic consciousness, social organization and _____.
(A) Racial traits
(B) Religious affiliations
(C) Modes of production
(D) Political affiliations
67. _____ can include education, health promotion, screening and other interventions among women of reproductive age to reduce risk factors that might affect future pregnancies.
(A) Preconception Care
(B) Prenatal Care
(C) Neonatal Care
(D) Postnatal Care
68. Malnutrition in the elderly is a result of _____ and endocrine system disorders.
(A) Intestinal
(B) Respiratory
(C) Muscular
(D) Genetic
69. _____ is a position held by a state or a class, when it so dominates its sphere of operation that other states or classes are forced to comply with.
(A) Geopolitics
(B) Hegemony
(C) Gerrymander
(D) Fundamentalism
70. The line of actual control across Ladakh between India and China appears to be a _____ type of Boundary.
(A) Antecedent
(B) Relict
(C) Subsequent
(D) Superimposed
71. Which of the following statement(s) is/are correct regarding 'Lebensraum'?
I. The term was developed by Geopolitik School.
II. The term was used by both Ratzel and Darwin.
III. The meaning of 'Lebensraum' is 'Living Space'.
(A) Only III is correct
(B) Only I is correct
(C) Only I and III are correct
(D) Only II and III are correct
72. Which of the following instruments is used to measure angles of hill slopes?
(A) Dumpy level
(B) Abney level
(C) Sextant
(D) Clinometers
73. Which of the following is the product of glacio-fluvial processes?
(A) Pediment
(B) Bajada
(C) Drumlin
(D) Belson

74. Landforms formed as a result of complex folding mechanism caused by intense horizontal movement and resultant comprehensive force is known as:
- (A) Graben
 - (B) Nappe
 - (C) Hanging Wall
 - (D) Synclinoorium
75. A broad segment of lithosphere that floats on the underlying asthenosphere and moves independently is associated with :
- I. Melting of snow and rise in sea level.
 - II. Most recent and widely acclaimed theory which gives answers for the origin of continents and oceans.
 - III. Occurrence of earthquakes and eruption of volcanoes.
 - IV. Melting of snow and rise in the flow of the rivers.
- (A) I & II
 - (B) II & III
 - (C) I, II & IV
 - (D) II, III, & IV
76. Which of the following is not a component of Geomorphic theory/ principles of G.K. Gilbert?
- (A) Concept of Equilibrium
 - (B) Concept of Time
 - (C) Concept of Quantification
 - (D) Concept of Historical succession
77. The rigid lithospheric slabs are known as 'plates'. What would be the result if the oceanic plate collides with the continental plate?
- (A) The oceanic and continental plates will never touch each other
 - (B) The oceanic and continental plates will collide with each other
 - (C) The continental plate will be forced below the oceanic plate
 - (D) The oceanic plate will be forced below the continental plate
78. Which of the following is not related to Airy's Concept of Isostasy?
- (A) Law of Floatation
 - (B) Root Formation
 - (C) Level of Compensation
 - (D) Uniform density with varying thickness
79. The end product of Penckian Cycle of Erosion is _____.
- (A) Peneplain
 - (B) Pediplain
 - (C) Monadnock
 - (D) Inselberg

80. Match List-I and List-II and select the correct answer from the codes given below:
- List-I** (Scientist)
- P Galileo
Q Newton
R Kepler
S Copernicus
- List-II** (Concept)
- I Heliocentric Universe
II Elliptical Motion of the Earth
III Universal Mathematical Order
IV Law of Gravitation
- Codes:
- | | P | Q | R | S |
|-----|-----|----|-----|-----|
| (A) | I | II | III | IV |
| (B) | III | IV | II | I |
| (C) | IV | II | I | III |
| (D) | II | IV | III | I |
81. Given below are two statements, one labelled as Assertion (a) and the other labelled as Reason (r). Read the statements and choose the correct answer from the codes given below:
- Assertion (a)** : Ratzel provided the scientific basis to study Human Geography through his two volumes of the book "Anthropogeography".
- Reason (r)**: Positivism was the approach used in the book "Anthropogeography".
- (A) Both (a) and (r) are true and (r) is correct explanation of (a)
(B) Both (a) and (r) are true and (r) is not correct explanation of (a)
(C) (a) is true, but (r) is false
(D) (a) is false, but (r) is true
82. George Gerland's programme to develop geography as a scientific discipline is important because :
- (A) It was with regard to the historical development of the discipline
(B) It was based on the concept of science and purely logical considerations
(C) It formulated the correct perspective of the discipline
(D) It remained a standard frame of the discipline
83. Arrange the following philosophers in ascending order starting from the oldest and accordingly select the correct code :
- I. Eratosthenes
II. Thales
III. Aristotle
IV. Herodotus
- (A) I, II, III, IV
(B) II, I, IV, III
(C) II, IV, III, I
(D) IV, II, I, III
84. According to which women and Geography Study Group, feminist geography tries to "analyze and understand why women remain in sub-ordinate position in society and profession"?
- (A) Association of American Geographers
(B) Swedish Geographical Association
(C) German Psychology Association
(D) Institute of British Geographers

85. Who among the following scientists was the first to propose a classification of plants and animals ?
 (A) Count Buffon
 (B) James Rennel
 (C) George Foster
 (D) John Ray
86. Given below are two statements, choose the correct statement from the codes given below:
Statement 1: "Man is the product of the earth, dust of her dust" – Statement given by E. Semple
Statement 2: "Influences of Geographical Environment" – A book written by E. Semple in 1911.
 (A) Only Statement 1 is correct
 (B) Only Statement 2 is correct
 (C) Both Statements are correct
 (D) Both Statements are incorrect
87. Who was very critical of Ritter's Method of Comparative Geography and of Humboldt for creating the impression that general geography could be equated with the entirety of natural science ?
 (A) Buache (B) Bonpland
 (C) Gerland (D) Peschel
88. It was _____ in 1905, who clearly expressed the logical arguments concerning this place of the Earth's body in the field of Geography.
 (A) Hettner
 (B) Humboldt
 (C) Ritter
 (D) Richthofen
89. _____ in 1947 proposed a new branch of Geography called "Geosophy" to be concerned with "subjective conceptions".
 (A) W.K. Kirk
 (B) C.O. Sauer
 (C) G.F. White
 (D) J.K. Wright
90. "Geological structure is a dominant central factor in the evolution of landforms and reflected in them". Which of the following is not related to the above concept ?
 (A) Process Geomorphology
 (B) Structural Geomorphology
 (C) Rocks and Reliefs
 (D) Geological Structure and Landforms
91. Given below are two statements, one labelled as Assertion (a) and the other labelled as Reason (r). Read the statements and choose the correct answer from the codes given below:
Assertion (a) : The valley sides and valley floors of rivers are vigorously eroded through abrasion in the hilly regions.
Reason (r): Steep Channel gradient accelerates abrasive power of the rivers.
 (A) Both (a) and (r) are true and (r) is correct explanation of (a)
 (B) Both (a) and (r) are true and (r) is not correct explanation of (a)
 (C) (a) is true, but (r) is false
 (D) (a) is false, but (r) is true

92. The atmospheric pressure, force of wind and reflection of light is due to the presence of which of the following gases ?
 (A) Nitrogen
 (B) Oxygen
 (C) Argon
 (D) Carbon Dioxide
93. What is the effect of gravitational pull on Atmospheric Pressure?
 (A) More gravitational pull, lower is the Pressure
 (B) More gravitational pull, higher is the pressure
 (C) No effect
 (D) Fluctuating effect
94. Given below are two statements, one labelled as Assertion (a) and the other labelled as Reason (r). Read the statements and choose the correct answer from the codes given below:
Assertion (a): Mediterranean climatic regions receive precipitation during winter season.
Reason (r): Westerlies cover Mediterranean climatic regions during winters.
 (A) Both (a) and (r) are true and (r) is correct explanation of (a)
 (B) Both (a) and (r) are true and (r) is not correct explanation of (a)
 (C) (a) is true, but (r) is false
 (D) (a) is false, but (r) is true
95. Floods caused due to outburst of glacial lakes are referred to as Glacial Lakes Outburst Floods (GLOF). Take into account the following factors.
 I. Unpredictable monsoon rainfall patterns
 II. Earthquake event
 III. Long-term land degradation
 IV. Nature of the damming material
 Which of the factors given above can trigger GLOF?
 (A) I, II, & III (B) II, III, & IV
 (C) I & IV (D) I, II, III, & IV
96. Match List-I and List-II and select the correct answer from the codes given below:
List-I (Convention Protocol)
 P Intertropical
 Q Polar Cell
 R Hadley Cell
 S Ferrel Cell
List-II (Regions)
 I Convergence Zone
 II Doldrums
 III Westerlies
 IV Easterlies
Codes:

	P	Q	R	S
(A)	III	IV	II	I
(B)	I	III	IV	II
(C)	II	I	III	IV
(D)	IV	II	I	III

97. Study the following characteristics of Tropical Cyclone and state the cycle of its development.
1. A warm sea temperature of $> 26^{\circ}\text{C}$
 2. High relative humidity of atmosphere at a height of > 100 meter
 3. Atmospheric inequality
- (A) Formation and Initial Development
(B) Full Maturity
(C) Modification stage
(D) Decay
98. The reduction of lake water volume is the most crucial mitigating strategy for lowering GLOF risk. Which of the following methods may be applied for that?
- I. Controlled Breaching
 - II. Construction of an outlet control structure
 - III. Siphoning out the water from the lake
 - IV. Making a tunnel through the moraine barrier
- (A) I, II, & III
(B) II, III, & IV
(C) I & IV
(D) I, II, III & IV
99. Very warm and humid air can rise very vigorously especially if it is rising over a mass of very cold air. Such a phenomenon can cause:
- I. Storms and Cyclonic storms
 - II. Intense rain and hail
 - III. Calm weather
 - IV. Snowfall
- (A) I & II
(B) II & III
(C) II, III, & IV
(D) I, II, & IV
100. Given below are two statements, one labelled as Assertion (a) and the other labelled as Reason (r). Read the statements and choose the correct answer from the codes given below:
- Assertion (a) :** Relative Humidity increases with increasing height on windward side of coastal mountains.
- Reason (r) :** Air temperature decreases with increasing height at dry adiabatic rate on windward slope of coastal mountains.
- (A) Both (a) and (r) are true and (r) is correct explanation of (a)
(B) Both (a) and (r) are true and (r) is not correct explanation of (a)
(C) (a) is true, but (r) is false
(D) (a) is false, but (r) is true

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Rough Work