

Sr. No. **701**

ENTRANCE TEST-2021

SCHOOL OF ENVIRONMENTAL AND EARTH SCIENCES

GEOGRAPHY

Total Questions : 60
Time Allowed : 70 Minutes

Question Booklet Series **A**

Roll No. :

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 - (A) The exact positioning of events
 - (B) Geocentricism
 - (C) The best location
 - (D) The quality of particular areas
2. Following the orthodox structure of geography, economic geography is a subset of which of the following ?
 - (A) Philosophy
 - (B) Regional
 - (C) Techniques
 - (D) Systematic
3. Who founded the school of possibilism ?
 - (A) Lablache
 - (B) L. Febrve
 - (C) R. Hartshone
 - (D) Ratzel
4. The most successful types of regional units appear to be those whose spatial boundaries coincide most closely with the described :
 - (A) Socioeconomic systems
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 - (A) Colour and shape
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11. Alfred Wagner's theory of continental drift begins from :
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16. Relative humidity of an air mass increases when :
- air temperature rises
 - condensation takes place
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 - air temperature falls
17. Which of the following factors influence ocean currents ?
- Rotation of the Earth
 - Air pressure and wind
 - Ocean water density
 - Revolution of the earth
- Select the correct answer using the codes given below :
- 1 and 2
 - 1 and 4
 - 1, 2 and 3
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18. Pelagic deposits consist of matter derived from algae and are mostly in the form of liquid mud known as :
- Blue mud
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 - Poles
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 - Tropic of Capricorn

21. Which of the following are the major factors responsible for the monsoon type of climate in India ?
1. Location
 2. Thermal contrast
 3. Upper air circulation
 4. The Himalayan Mountains
- Select the correct answer using the code given below :
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 - (B) 1, 2, 3 and 4
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22. The Karewas of Kashmir refers to which among the following types of deposits ?
- (A) Aeolian and glacial
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 - (C) Fluvial
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23. What is the name given to the foothills zone of Himalayas ?
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 (B) High birth rates and high death rates
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 (D) Most of the third world
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 (B) Monsoons are unpredictable
 (C) Water is not easily available
 (D) It is not economically viable
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- (A) Crop yield
 (B) Productivity of the land
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21.

41. The distance between parallels in Mercator's projection :
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 - Cyclone
 - Drought
 - Tsunami
59. What types of disasters are most predominant in India ?
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60. In India Tsunami warning centre is located at :
- Ahmadabad
 - Kolkata
 - Vishakhapatnam
 - Hyderabad

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ROUGH WORK

Sr. No.474.....

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13. Ensure that your OMR Answer Sheet has been signed by the Invigilator and the candidate himself/herself.
14. At the end of the examination, hand over the OMR Answer Sheet to the invigilator who will first tear off the original OMR sheet in presence of the Candidate and hand over the Candidate's Copy to the candidate.

JJ-315-B

1
**

[Turn over

SEAL

1. The four great clusters of population in the world are :
- East Asia, South Asia, Europe, North America
 - East Asia, South Asia, Europe, Africa
 - East Asia, South Africa, Europe, North America
 - East Asia, South Asia, North America, South America
2. Optimum Theory of Population was given by :
- Carr Saunders and Malthus
 - Edwin Cannan, Dalton and Carr Saunders
 - Rosenstein Rodan, Schumpeter and Ricardo
 - Marshall, Schumpeter and Ricardo
3. Which of the following is characterised by the second stage of demographic transition ?
- Low birth rate and high death rate
 - High birth rate and high death rate
 - High birth rate and declining death rate
 - Low birth rate and low death rate
4. Some analysts point to a future problem in countries such as Japan, Italy, and Canada where the swelling ranks of the elderly have fewer and fewer young people to support them in old age. This condition is referred to as :
- The demographic transition
 - Overpopulation
 - An absence of fecundity
 - Underpopulation
5. The global distribution of different types of terrestrial biomes is most directly influenced by :
- Climatic factors
 - Biotic factors
 - Topographic features
 - Soil characteristics
6. A lake or pond community is also known as a :
- Pelagic community
 - Lentic community
 - Benthic community
 - Lotic community
7. Which of the following can be threats to the biodiversity of a geographical area ?
- Global warming
 - Fragmentation of habitat
 - Invasion of alien species
 - Promotion of vegetarianism
- Select the correct answer using the codes given below :
- I and IV only
 - II and III only
 - I, II and III only
 - I, II, III and IV
8. A series of protected areas linked through a global network, intended to demonstrate the relationship between conservation and development is called as :
- Biosphere reserve
 - National park
 - Bird sanctuaries
 - Wildlife sanctuaries

9. The Aravalli Range runs across which of the following pairs of Indian States ?

- (A) Gujarat, Rajasthan, Punjab and Delhi
- (B) Nepal, Rajasthan, Haryana and Delhi
- (C) Gujarat, Rajasthan, UP and Delhi
- (D) Gujarat, Rajasthan, Haryana and Delhi

10. Match List—I with List—II and select the correct answer using the codes below :

List—I		List—II	
(Source Region)		(Rivers)	
I. Chottanagpur plateau		1. Cauvery	
II. Verinag spring		2. Krishna	
III. Brahmangiri hills		3. Jhelum	
IV. Mahabaleshwar		4. Subernarekha	

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

11. The concept of differential heating was primarily given to explain which of the following geographical phenomena in India ?

- (A) Monsoon
- (B) Desert Storms
- (C) Jet Streams
- (D) Cyclones

12. Match the following local storms with their correct definition :

- | | |
|-------------------|---|
| i. Blossom Shower | 1. Pre-Monsoon showers which help in blossoming of coffee flowers |
| ii. Nor Westers | 2. Pre-Monsoon showers which help in the ripening of mangoes |
| iii. Mango Shower | 3. Evening thunderstorms in Bengal and Assam |
| iv. Loo | 4. Hot, dry and oppressing winds blowing in Northern plains |

- | | i | ii | iii | iv |
|-----|---|----|-----|----|
| (A) | 1 | 2 | 3 | 4 |
| (B) | 2 | 1 | 4 | 3 |
| (C) | 3 | 4 | 1 | 2 |
| (D) | 1 | 3 | 2 | 4 |

13. Consider the following statements :

1. Central Rice Research institution is located in Bengaluru.
2. Agriculture sector directly employs 65% of labour force in India.
3. The impact of green revolution is felt most in the production of wheat.

Which statements are correct ?

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

14. Which one of the following groups of iron and steel plants is located within the Chottanagpur region ?

- (A) Madurai, Mettur, Salem
- (B) Bokaro, Rourkela, Burnpur
- (C) Sharavati, Pykara, Mettur
- (D) Salem, Villupuram, Sharavati

15. Which agency is responsible for procurement, distribution and storage of food grain production in India ?

- (A) Food Corporation of India
- (B) NAFED
- (C) Ministry of Agriculture
- (D) TRIFED

16. Which of the following industries provides maximum number of employment in India ?

- (A) Paper industry
- (B) Iron and Steel industry
- (C) Cement industry
- (D) Cotton Textile industry

17. Between which ranges does the Kashmir valley in the Himalayas lie ?

- (A) Pir Panjal and Dhauladhar
- (B) Dhauladhar and Zaskar
- (C) Zaskar and Pir Panjal
- (D) Siwalik and Pir Panjal

18. Match the following correctly :

List—I (Hydroelectric Projects)	List—II (Rivers)
------------------------------------	---------------------

- | | |
|----------------|-----------|
| i. Baghliar | 1. Jhelum |
| ii. Nimo Bazgo | 2. Indus |
| iii. Uri | 3. Chinab |

Codes :

- | | i | ii | iii |
|-----|---|----|-----|
| (A) | 3 | 2 | 1 |
| (B) | 3 | 1 | 2 |
| (C) | 1 | 3 | 2 |
| (D) | 1 | 2 | 3 |

19. Which of the following districts of Jammu and Kashmir has the highest density of population as per 2011 census ?

- (A) Kupwara
- (B) Budgam
- (C) Rajouri
- (D) Doda

20. Match the following List—I with List—II correctly :

List—I (Wildlife Sanctuary)	List—II (District)
--------------------------------	-----------------------

- | | |
|--------------------|-------------|
| i. Hirpora | 1. Gandeбал |
| ii. Trikuta | 2. Shopian |
| iii. Changthang | 3. Resai |
| iv. Baltal-Thajwas | 4. Leh |

Codes :

- | | i | ii | iii | iv |
|-----|---|----|-----|----|
| (A) | 2 | 3 | 1 | 4 |
| (B) | 3 | 1 | 4 | 2 |
| (C) | 2 | 3 | 4 | 1 |
| (D) | 1 | 2 | 3 | 4 |

21. Which of the following is/are the secondary skills which are useful for disaster managers ?
- (A) Disaster assessment
 - (B) Refugee camp planning
 - (C) Law enforcement
 - (D) All the above
22. The process of identifying the probability of occurrence of a natural hazard of a given intensity at a specific location based on an analysis of natural processes and site conditions is termed as :
- (A) Disaster calculation
 - (B) Hazard Assessment
 - (C) Hazard calculation
 - (D) None of the above
23. Which of the following is an example of a rapid-onset disaster ?
- (A) Drought
 - (B) Famine
 - (C) Epidemic
 - (D) Earthquake
24. The disaster which occurred at Chernobyl (USSR), Three Mile Island (USA) and Fukusima (JAPAN) are all related to :
- (A) Nuclear disasters
 - (B) Epidemic disasters
 - (C) Chemical disasters
 - (D) Flood disasters
25. Which of the following is not the part of 'The Involvement Stage' of the Butler's theory of tourism development ?
- (A) Local residents become involved in tourism
 - (B) Successful redevelopment leads to renewed growth
 - (C) Emergence of secondary tourism facilities such as guest houses
 - (D) Pressure develops for governments to improve transport for tourists
26. Sustainable tourism as a concept is closely linked to which of the following ?
- (A) Sustainable mobility
 - (B) Reliable electricity
 - (C) Road worthiness
 - (D) Hospitality
27. The travel advisory issued by a government for its citizens leads to what type of demand for tourism ?
- (A) Potential demand
 - (B) Effective demand
 - (C) No demand
 - (D) Deferred demand
28. The Indian Institute of Skiing and Mountaineering is located in :
- (A) Yusmarg
 - (B) Sonamarg
 - (C) Gulmarg
 - (D) Pahalgam

29. Match the following correctly :

List—I (Cartographic Methods)	List—II (Maps)
i. Chorochromatic	1. Density of population
ii. Choropleth	2. Contour
iii. Choroschematic	3. Administrative map
iv. Isopleth	4. Use of letters like W=Wheat, P=Paddy

Codes :

	i	ii	iii	iv
(A)	2	3	1	4
(B)	3	1	4	2
(C)	1	3	4	3
(D)	1	2	3	4

30. Which of the following does not belong to the category of cartographic elements of a map ?

- (A) Grid
- (B) Bar scale
- (C) Cardinal direction
- (D) Legends

31. Which of the following are the steps for digital map making process ?

- I. Preparation of grid
- II. Import of cloud of points
- III. Drawing of objects and contours
- IV. Taking of printout

Choose the correct options :

- (A) I and II only
- (B) I and IV only
- (C) II, III and IV only
- (D) I, II and III only

32. If a map is drawn on RF 1/5500, which one of the following representative fractions will be correct if the map is reduced to half ?

- (A) 1/2750
- (B) 1/11000
- (C) 1/5000
- (D) 1/33000

33. Which of the following is well adopted for Chain surveying ?

- (A) Small areas in open ground
- (B) Small areas with crowded details
- (C) Large areas with simple details
- (D) Large areas with difficult details

34. After fixing the plane table to the tripod, the main operations which are needed at each plane table station are :

- (i) Levelling
- (ii) Orientation
- (iii) Centring

The correct sequence of these operations is :

- (A) (i), (ii), (iii)
- (B) (i), (iii), (ii)
- (C) (iii), (i), (ii)
- (D) (ii), (iii), (i)

35. Remote Sensing satellites generally orbit in :
- Sun-synchronous
 - Geostationary
 - Geo-synchronous
 - None of the above
36. Indian equivalent of GPS navigation system is known as :
- GALILEO
 - NAVIC
 - IKONOS
 - GLONASS
37. Analysis of variance is a statistical method of comparing which of the following ?
- Standard deviations
 - Variances
 - Means
 - Proportions
38. The study of functional relationship between the variables, making it possible to predict/estimate the unknown value of one of the variables from the known value of the other is known as :
- Correlational Analysis
 - Regression Analysis
 - Mean Difference Analysis
 - None of these
39. Which of the following is used to compare the consistency of two or more sets of data ?
- Coefficient of Skewness
 - Coefficient of Correlation
 - Coefficient of Kurtosis
 - Coefficient of Variation
40. Mean marks of 150 students were found to be 50. Later it was found that a score of 87 was misread as 78. What is the correct mean ?
- 49.9
 - 59.5
 - 50.09
 - 51.05
41. Who among the following defined geography as discovery of predictive patterns during quantitative revolution period ?
- P. Hagget
 - D. Stewart
 - W. Bunge
 - D. Harvey
42. Who have contributed to the solution of the controversy of Regional vs. Systematic geography ?
- Richthofen and Hattner
 - Ritter and Ratzel
 - Ritter and Humbolt
 - Hattner and Peschel
43. Cephalic index which is to classify human races is calculated as :
- Ratio between the length and breadth of the nose
 - Ratio between the length and breadth of the head
 - Ratio between the length of the head and weight of body
 - Ratio between flatness and length of the head

1. A Plateau lying to the west of the Armenian knot, bordered by Pontic mountains to the North and Taurus mountains to the South is :
 - (A) Anatolian plateau
 - (B) Tibetan plateau
 - (C) Iranian plateau
 - (D) Siestan plateau
2. A zone of transition between two Biomes is called :
 - (A) Ecosystem
 - (B) Biosphere
 - (C) Bioreserve
 - (D) Ecotone
3. Which of the following mountain ranges is not a part of Alpine mountain system ?
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 - Canary current
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 - Tropical savanna climate
 - Tropical rainforest climate
 - Steppe climate

37. Most of the salt in the sea water is derived from the :
- Seafloor
 - Atmosphere
 - Remains of sea life
 - Continents
38. The corals do not grow near the mouths of rivers because of :
- Inadequate depth
 - Inadequate temperature
 - Low salinity and high turbidity
 - Lack of plankton
39. In a tropical cyclone, the pattern of isobars is :
- Elliptical
 - Circular
 - Semicircular
 - Rectangular
40. What would be the R.F. when a map of 1 cm = 60 km is reduced to one-third ?
- 1:18,000,000
 - 1:3,168,000
 - 1:1,000,000
 - 1:20,000
41. India is expected to be the most populous country by 2050 surpassing :
- USA
 - Brazil
 - Russia
 - China
42. A country having zero population growth would be characterized by the following factors except :
- Increased proportion of older citizens
 - Lots of young people
 - Rise in median age population
 - Fewer young people
43. Who among the following asserted that the power of population to reproduce is much greater than the power of earth to produce food for them ?
- Thomas Malthus
 - W.S. Thompson
 - F.N. Notestein
 - W. Zelinkesy
44. The mobility transition model of migration was put forth by :
- Zipf
 - Zelinkesy
 - Thompson
 - Stopher
45. The term Ecology was coined by a German biologist named :
- Ernest Haeckel
 - E.P. Odum
 - Isidore Geoffroy
 - G.J. Mivert
46. Agriculture region is an example of :
- Functional region
 - Homogenous region
 - Nodal region
 - Axial region
47. The natural ability of an Ecosystem to restore a state of equilibrium in it is called :
- Equilibrium state
 - Steady state
 - Homeostasis
 - All of the above
48. D. Whittlesey has classified the world into how many agricultural regions ?
- 10
 - 11
 - 12
 - 13

49. The largest physiographic division of India by area is :
- Himalayan mountains
 - Indo-gangetic plain
 - Peninsula plateau
 - Coastal plains
50. Among the following Indian rivers, which one is not antecedent in nature :
- Indus
 - Son
 - Ganga
 - Sutlej
51. Which one of the following States does not receive much rainfall during the south-west monsoon season ?
- Tamil Nadu
 - Kerala
 - Karnataka
 - Assam
52. The length of Gunters chain is :
- 100 ft.
 - 80 ft.
 - 66 ft.
 - 50 ft.
53. Which of the following is not among the major characteristics of Indian agriculture ?
- Small size of landholdings
 - Subsistence farming
 - Commercial nature
 - High dependency on monsoon
54. The oldest and the richest coal field of India as per quantity of production and quality is :
- Jharia
 - Bokaro
 - Makum-Nazira
 - Raniganj
55. In India the leading producer of Sugar cane is :
- U.P.
 - Karnataka
 - Tamil Nadu
 - Gujarat
56. Which of the following is not among the major components of Green Revolution in India ?
- HYV seeds
 - Use of chemical fertilizers
 - Land reforms
 - Subsistence agriculture
57. Which sector contributes largest share to economy of J & K ?
- Tourism
 - Agriculture
 - Trade
 - Industry
58. Bulk of the precipitation in the State of Jammu and Kashmir is received through :
- Western disturbances
 - South west monsoon
 - North east monsoon
 - None of the above
59. The valley of Kashmir lies between which of the following mountain ranges :
- Suleiman and Kirthar
 - Zaskar and Ladakh
 - Pir-panjal and Zaskar
 - Pir-panjal and Karakoram
60. Which of the following continents is *not* divided by the equator ?
- Asia
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 - Tropical rainforest climate
 - Steppe climate

37. Most of the salt in the sea water is derived from the :
- Seafloor
 - Atmosphere
 - Remains of sea life
 - Continents
38. The corals do not grow near the mouths of rivers because of :
- Inadequate depth
 - Inadequate temperature
 - Low salinity and high turbidity
 - Lack of plankton
39. In a tropical cyclone, the pattern of isobars is :
- Elliptical
 - Circular
 - Semicircular
 - Rectangular
40. What would be the R.F. when a map of 1 cm = 60 km is reduced to one-third ?
- 1:18,000,000
 - 1:3,168,000
 - 1:1,000,000
 - 1:20,000
41. India is expected to be the most populous country by 2050 surpassing :
- USA
 - Brazil
 - Russia
 - China
42. A country having zero population growth would be characterized by the following factors except :
- Increased proportion of older citizens
 - Lots of young people
 - Rise in median age population
 - Fewer young people
43. Who among the following asserted that the power of population to reproduce is much greater than the power of earth to produce food for them ?
- Thomas Malthus
 - W.S. Thompson
 - F.N. Notestein
 - W. Zelinkesy
44. The mobility transition model of migration was put forth by :
- Zipf
 - Zelinkesy
 - Thompson
 - Stopher
45. The term Ecology was coined by a German biologist named :
- Earnest Haeckel
 - E.P. Odum
 - Isidou Geoffroy
 - G.J. Mivert
46. Agriculture region is an example of :
- Functional region
 - Homogenous region
 - Nodal region
 - Axial region
47. The natural ability of an Ecosystem to restore a state of equilibrium in it is called :
- Equilibrium state
 - Steady state
 - Homeostasis
 - All of the above
48. D. Whittlesey has classified the world into how many agricultural regions ?
- 10
 - 11
 - 12
 - 13

49. The largest physiographic division of India by area is :
- Himalayan mountains
 - Indo-gangetic plain
 - Peninsula plateau
 - Coastal plains
50. Among the following Indian rivers, which one is not antecedent in nature :
- Indus
 - Son
 - Ganga
 - Sutlej
51. Which one of the following States does not receive much rainfall during the south-west monsoon season ?
- Tamil Nadu
 - Kerala
 - Karnataka
 - Assam
52. The length of Gunters chain is :
- 100 ft.
 - 80 ft.
 - 66 ft.
 - 50 ft.
53. Which of the following is not among the major characteristics of Indian agriculture ?
- Small size of landholdings
 - Subsistence farming
 - Commercial nature
 - High dependency on monsoon
54. The oldest and the richest coal field of India as per quantity of production and quality is :
- Jharia
 - Bokaro
 - Makum-Nazira
 - Raniganj
55. In India the leading producer of Sugar cane is :
- U.P.
 - Karnataka
 - Tamil Nadu
 - Gujarat
56. Which of the following is not among the major components of Green Revolution in India ?
- HYV seeds
 - Use of chemical fertilizers
 - Land reforms
 - Subsistence agriculture
57. Which sector contributes largest share to economy of J & K ?
- Tourism
 - Agriculture
 - Trade
 - Industry
58. Bulk of the precipitation in the State of Jammu and Kashmir is received through :
- Western disturbances
 - South west monsoon
 - North east monsoon
 - None of the above
59. The valley of Kashmir lies between which of the following mountain ranges :
- Suleiman and Kirthar
 - Zaskar and Ladakh
 - Pir-panjal and Zaskar
 - Pir-panjal and Karakoram
60. Which of the following continents is *not* divided by the equator ?
- Asia
 - Africa
 - Australia
 - South America