

Roll No.

--	--	--	--	--	--	--	--

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

Signature of Invigilators

1. \_\_\_\_\_
2. \_\_\_\_\_

**1317**

Question Booklet Series

**X**

**PAPER–III**

Question Booklet No.

(Identical with OMR Answer Sheet Number)

**Subject Code : 13**

## **GEOGRAPHY**

Time : 2 Hours 30 Minutes

Maximum Marks: 150

### **Instructions for the Candidates**

1. Write your Roll Number in the space provided on the top of this page as well as on the OMR Sheet provided.
2. 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:
  - (i) To have access to the Question Booklet, tear off the paper seal on the edge of this cover page.
  - (ii) Faulty booklet, if detected, should be get replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.
  - (iii) Verify whether the Question Booklet No. is identical with OMR Answer Sheet No.; if not, the full set to be replaced.
  - (iv) After this verification is over, the Question Booklet Series and Question Booklet Number should be entered on the OMR Sheet.
3. This paper consists of seventy-five (75) multiple-choice type questions. All the questions are compulsory. Each question carries *two* marks.

4. 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)** **●** **(D)**, where **(C)** is the correct response.

5. 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.
6. Rough work is to be done at the end of this booklet.
7. If you write your Name, Roll Number, Phone Number or put any mark on any part of the OMR Sheet, except 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.
8. Do not tamper or fold the OMR Sheet in any way. If you do so, your OMR Sheet will not be evaluated.
9. 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.
10. **Use only Black Ball point pen.**
11. **Use of any calculator or mobile phone etc. is strictly prohibited.**
12. **There are no negative marks for incorrect answers.**

**[Please Turn Over]**



## GEOGRAPHY

## PAPER III

## 1. Postmodernism

1. is against metanarratives
2. is anti-foundational
3. believes in 'essences'
4. rejects truth

Which of the above characterise postmodernism correctly?

*Codes:*

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

2. Which of the following scholar had established the 'Heliocentric concept' of the Universe?

- (A) Varenius
- (B) Nicholas Copernicus
- (C) Immanuel Kant
- (D) Humboldt

3. Who amongst the following scholars first declared that the earth is spherical?

- (A) Aristotle
- (B) S. Munster
- (C) Kant
- (D) Anaximander

4. Who is the author of *Geographia*?

- (A) Eratosthenes
- (B) Ptolemy
- (C) Strabo
- (D) Varenius

5. Mechanistic models were developed in which of the following phases of Geography?

- (A) Post Behavioural Geography
- (B) Radical Geography
- (C) Quantitative Geography
- (D) Neo-deterministic Geography

6. Which of the following characteristics would fall in the Brazilian type of Population-Resource Region as identified by Ackerman?

- (A) Technology source areas with high Population-Resource Ratio.
- (B) Technology deficient areas with low Population-Resource Ratio.
- (C) Technology deficient areas with high Population-Resource Ratio.
- (D) Technology source areas with low Population-Resource Ratio.

7. The major sources of population data are: Choose from the following:

1. The Census and Vital Statistics
2. Sample Registration System
3. Demographic Sample Surveys and Population Registers
4. Demographic Year Book

*Codes:*

- (A) 1 and 2
- (B) 1 and 3
- (C) 1 and 4
- (D) All of the above

8. Which one is the most densely populated area in India?

- (A) Lower Ganga Plain
- (B) Kerala Coastal Plain
- (C) Assam Valley
- (D) Utkal Plain

9. Which of the following description about earthquakes is correct?

- (A) The Richter Scale is used to show the intensity of an earthquake.
- (B) The point under the Earth's Surface where fracturing begins is the earthquake's epicentre.
- (C) All earthquake occur along the plate boundary.
- (D) Most deep-focus earthquakes are found along the destructive plate margin.

10. A long, narrow and winding deposit of stratified drift describes

- (A) a drumlin
- (B) an esker
- (C) a kame
- (D) an outwash plain

11. Arrange the following concepts in order in which they appeared. Use the code given below:

- a. Principle of uniformitarianism
- b. Theory of continental drift
- c. Dynamic equilibrium theory
- d. Theory of convection current

*Codes:*

- (A) a, c, d, b
- (B) b, a, d, c
- (C) d, a, b, c
- (D) a, b, d, c

12. The magnitude-frequency concept in tectonic induced landslide states that there is generally

- (A) a positive relationship between the magnitude of an event and its frequency.
- (B) a inverse relationship between the magnitude of an event and its frequency.
- (C) a null relationship between the magnitude of an event and its frequency.
- (D) None of the above

13. *Assertion (A)* : Flood becomes the most destructive of natural hazards in Ganga-Brahmaputra valley.

*Reason (R)* : Due to more and more people are living in flood hazard prone areas.

*Codes:*

- (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.

14. Which of the following significantly weakened the strength of Mackinder's geopolitical heartland theory?

- (A) Ascendancy of the United State's international influence after the World War II.
- (B) Existence of a pivot area.
- (C) Growth of Soviet power in eastern Europe.
- (D) Influence of Eurasia in world affairs.

15. Erosion can be seen as a sequence of three processes: (*Choose the best alternative*).

- (A) Detachment, entrainment and transport which cannot be distinguished from each other.
- (B) Detachment, entrainment and transport which can be distinguished from each other.
- (C) These three processes are often closely related and sometimes not easy to distinguished between each other.
- (D) None of the above

16. A type of mechanical weathering that requires daily freeze-thaw conditions to break rock into angular fragments is

- (A) Exfoliation
- (B) Frost action
- (C) Spheroidal weathering
- (D) Frost heaving

17. Sea floor spreading implies that
- (A) the ocean basins are getting thinner.
  - (B) with increasing distance from the ridges, the rocks are younger.
  - (C) the oceans of the planet are getting thicker.
  - (D) new crustal material is being formed.
18. Which one of the following is *not* a characteristic feature at source region of cP airmass?
- (A) Cold and dry
  - (B) Very stable
  - (C) Very little cloud cover
  - (D) Very unstable
19. Which one of the following is incorrectly matched with reference to the dates of the NLM?
- (A) Hyderabad — June, 05
  - (B) Bhubaneswar — June, 10
  - (C) Jodhpur — July, 01
  - (D) Guwahati — June, 10
20. As per the recent assessment of cyclone vulnerability of Indian coastal districts by IMD the most vulnerable districts are located in which one of the following coastal states ?
- (A) Tamil Nadu
  - (B) Kerala
  - (C) Karnataka
  - (D) Odisha
21. Population growth in India was quite low before 1921 because
- (A) birth rate was lower than that at present.
  - (B) death rate was higher than that at present.
  - (C) death rate was lower than that at present.
  - (D) birth rate was higher than that at present.
22. Which among the following has the highest physiological density?
- (A) Japan
  - (B) Bangladesh
  - (C) Egypt
  - (D) China
23. Going by the patterns of Total Fertility Rate (TFR) observed at the beginning of the 21st century, which statement among the following is correct?
- (A) 2.1—2.5 considered as replacement level.
  - (B) China and the USA recorded less than 2.1 TFR.
  - (C) India had higher TFR compared to Pakistan.
  - (D) Africa had the concentration of the highest TFR countries.
24. If a population grows at the annual rate of 1.0 per cent, after how many years it would be double?
- (A) 80 years
  - (B) 75 years
  - (C) 70 years
  - (D) 60 years
25. Sjoberg model has to do with
- (A) Pre-industrial City
  - (B) Industrial City
  - (C) Post-industrial City
  - (D) Post-modern City
26. Which of the following is *not* among the main aspects of rural settlement?
- (A) Site
  - (B) Form
  - (C) Situation
  - (D) Distribution

**27.** The law of primacy in urban hierarchy was first identified by

- (A) F. Averbach
- (B) Mark Jefferson
- (C) Brian. J. L. Berry
- (D) G. K. Zipf

**28.** Exburnites are

- (A) inhabitants who previously used to live in urban areas but have since left the town.
- (B) those urban people who are constantly changing their residence.
- (C) the commuters beyond the continuous urban built up area.
- (D) inhabitants of suburbs.

**29.** Which identified resource among the following is going to last the longest?

- (A) Bauxite
- (B) Iron Ore
- (C) Nickel
- (D) Mercury

**30.** The First Green Revolution's ingredients were

1. HYV seeds
2. Agrochemicals
3. Single cropping system
4. Modern farm machinery
5. Proper irrigation system

Which of the above are correct answers?

- (A) 1, 2, 3 and 4
- (B) 2, 3, 4 and 5
- (C) 1, 2, 4 and 5
- (D) 1, 3, 4 and 5

**31.** All the following are true of truck farming except

- (A) among the most common truck crops are tomatoes, strawberries and lettuce.
- (B) most often it is characterized by the use of mechanized farming tools.
- (C) labour costs are often relatively high on these large scale farming operations.
- (D) it is the predominant agricultural practice found in the south-eastern United States.

**32.** Industries which are considered "footloose"

- (A) are fly-by night operations.
- (B) are found in predominantly agricultural areas.
- (C) are not affected by transportation cost.
- (D) require multiple sources of raw materials.

**33.** SEZ policy was announced in India in the year

- (A) 1965
- (B) 2000
- (C) 2005
- (D) 2007

**34.** Sea level rise will produce a significant threat to the cities of India situated in the coastal plain in the following sequence :

- (A) Kolkata–Mumbai–Chennai
- (B) Bhubaneswar–Cuttack–Vijayvada
- (C) Thiruvananthapuram–Belagavi–Baroda
- (D) Rajahmundry–Bhadrak–Thanjavur

**35.** Which of the following mode of transport is highly elastic?

- (A) Airways
- (B) Railways
- (C) Roadways
- (D) Waterways

36. The Concept of nation is

1. Foundational
2. Anti-foundational
3. Production of nationalism
4. Clearly spatial

Which of the above are true?

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

37. The Kurds present an example of

- (A) Binational State
- (B) Multinational State
- (C) Part-nation State
- (D) Stateless nation

38. Select the correct sequence of the lengths of the international borders with India in decreasing order:

- (A) Pakistan, Bangladesh, Myanmar, Nepal
- (B) Pakistan, Myanmar, Bangladesh, Nepal
- (C) Bangladesh, Pakistan, Nepal, Myanmar
- (D) Nepal, Bangladesh, Pakistan, Myanmar

39. Which of the following states share international boundary with three countries?

- (A) Uttarakhand
- (B) Uttar Pradesh
- (C) Arunachal Pradesh
- (D) Tripura

40. Which of the following is *not* among the new challenges to the geopolitics concept?

- (A) Non-State organisations
- (B) Internalisation
- (C) Globalisation
- (D) Trans-boundary issues

41. Bengali language is associated with which language family?

- (A) Dravidian language family
- (B) Indo-Aryan language family
- (C) Austroasiatic language family
- (D) Sino-Tibetan language family

42. Match the following:

- |             |  |
|-------------|--|
| 1. Awadhi   | i. Arunachal Pradesh                     |
| 2. Maithili | ii. Himachal Pradesh and Jammu & Kashmir |
| 3. Dogri    | iii. Jharkhand and Bihar                 |
| 4. Adi      | iv. Bihar                                |
| 5. Khortha  | v. Uttar Pradesh                         |

- (A) 1-v, 2-iv, 3-ii, 4-i, 5-iii
- (B) 1-i, 2-ii, 3-iii, 4-iv, 5-v
- (C) 1-ii, 2-iii, 3-v, 4-i, 5-iv
- (D) 1-iv, 2-ii, 3-i, 4-iii, 5-v

43. Most of the people of the middle-east belongs to which of the following racial group of people?

- (A) Caucasoid
- (B) Mongoloid
- (C) Alpine
- (D) Mediterranean

44. Which among the following is *not* considered as a racial trait?

- (A) Physical trait
- (B) Ancestry
- (C) Genetics
- (D) Literary

**45.** Concentric Zone model includes the following zones within a city:

1. Wholesale and light manufacturing zone
2. Commuter zone
3. Central business district
4. High class residential zone

Arrange these zones in correct sequence starting from the core of the city by using codes given below:

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

**46.** The Town and Country Planning Organisation was set up in India in 1962 with the merger of which of the following institutes:

- (A) Town and Country Planning Organisation and Reserve Bank of India
- (B) Town and Country Planning Organisation and Ministry of Urban Development
- (C) Town and Country Planning Organisation and Ministry of Urban Affairs
- (D) Town and Country Planning Organisation and Central Regional and Urban Planning Organization

**47.** In the hierarchy of planning, the regional planning will come at which of the following levels?

- (A) Above the national planning
- (B) Between national planning and local planning
- (C) Below the local planning
- (D) Imperative planning

**48.** Administrative regions are generally accepted as planning regions because

- (A) it provides for regional hierarchy.
- (B) it is a formal region.
- (C) plan formulation and implementation need administrative machinery.
- (D) both (A) and (B).

**49.** Which of the following regionalisation helps in systematically examining the problems like poverty, hunger, outmigration, cultural deprivation, under development and malnutrition?

- (A) Political region
- (B) Population region
- (C) Economic region
- (D) Natural Resource Region

**50.** Geometric Corrections of digital images at pre-processing stage is done by

- (A) systematic and non-systematic distortion correction
- (B) resampling
- (C) polynomial mapping
- (D) All of the above

**51.** Which one of the following is the first remote sensing satellite in the world?

- (A) Landsat
- (B) Spot
- (C) Aryavatta
- (D) Corona

**52.** *Assertion (A)* : The whole world cannot be shown in Polar Zenithal Sterographic Projection.

*Reason (R)* : The source of light in this perspective projection lies in the opposite Pole of the developable surface.

- (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.



53. Find the odd match out:

- (A) Bodo-Assam
- (B) Monpa-Arunachal Pradesh
- (C) Munda-Madhya Pradesh
- (D) Tharu-Uttar Pradesh

54. Which one of the following district does *not* have a large concentration of tribal population?

- (A) Bastar
- (B) Ranchi
- (C) Murshidabad
- (D) Jhabua

55. The Mahanadi River water dispute involves

- 1. Madhya Pradesh
- 2. Jharkhand
- 3. Chhattisgarh
- 4. Odisha

Which of the above are correct?

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

56. Meaning of “threshold” in Loschian theory of industrial location is

- (A) source of availing cheap labour.
- (B) source of raw material.
- (C) minimum market needed to sell goods or services.
- (D) market of ancillary requirements.

57. Match the following:

*List-I*

(Transport System/  
Models)

*List-II*

(Propounder)

- |  |           |
|--|-----------|
| a. Transport network in developing countries | 1. Taaffe |
| b. Spatial Exploration Model                 | 2. Gould  |
| c. Mercantile Model                          | 3. Vance  |
| d. Hybrid Transport System                   | 4. Rimmer |

*Codes:*

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

58. Match *List-I* with *List-II* and select the correct answer using the codes given below the lists:

*List-I*

(Quadrant)

*List-II*

(Reduced Bearing)

- |        |                 |
|--------|-----------------|
| a. II  | 1. S (180°– θ)E |
| b. I   | 2. N (360°– θ)W |
| c. III | 3. S (180°– θ)W |
| d. IV  | 4. NθE          |

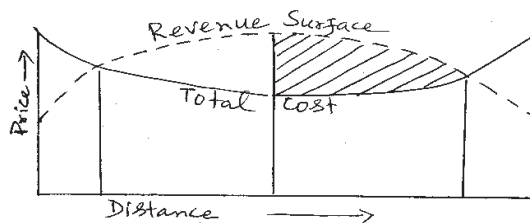
*Codes:*

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

59. Which of the following statements is true regarding manufacturing industries?

- (A) Manufacturing industries can only help in agriculture.
- (B) Manufacturing industries create unemployment.
- (C) Manufacturing industries provide employment not only in agriculture but for secondary and tertiary sectors.
- (D) Manufacturing industries reduce our dependency on agriculture.

60.



The shaded area in the above diagram is

- (A) loss
- (B) the maximum loss
- (C) profit
- (D) the maximum profit

61. Hurricane or Typhoons is an example of

- (A) Wave cyclone
- (B) Tropical cyclone
- (C) Tornado
- (D) Temperate cyclone

62. *Assertion (A)* : Roaring Forties are strong Westerly winds found in the Southern Hemisphere, generally between the latitudes of  $40^{\circ}$ s to  $50^{\circ}$ s.

*Reason (R)* : The strong east to west air currents are caused by the combination of air being displaced from the Equator towards the South Pole and the Earth's rotation and there are few land masses to serve as wind breaks.

- (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.

63. The Sargasso Sea is a vast patch of the Atlantic Ocean named for a free floating sea weed called Sargassum. This is formed due to

1. deposit of the marine plants and refuge by the North Atlantic current.
2. deposit of the marine plants and refuge by the Canary current.
3. deposit of the marine plants and refuge by the North Atlantic Equatorial current.
4. deposit of the marine plants and refuges by the Gulf Stream.

Select the correct answer from the codes given below:

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

64. In the seas surrounding the Antarctica you would expect

- (A) the surface water to be more saline than the deep water.
- (B) the surface water to be more dense than the deep water.
- (C) the surface water to be less dense than the deep water.
- (D) the surface water to be cooler than the deep water.

65. Global sea level changes are taking place mainly due to

- (A) thermal expansion of the sea water.
- (B) increased precipitation.
- (C) melting of high altitude glaciers.
- (D) relative subsidence of land margins.

66. The Peru or Humboldt current is  
 (A) a warm current  
 (B) a cold current  
 (C) a counter current  
 (D) a long shore current
67. The belt of sea adjoining the coast over which a coastal state exercises its sovereignty is called:  
 (A) Internal water  
 (B) Baseline  
 (C) Continental shelf  
 (D) Territorial water
68. The Mariana trench is the deepest part of the World's Oceans. Which one of the following statements about the Mariana trench is *not* correct?  
 (A) It is located in the Western Pacific Ocean, to the west of Mariana Island.  
 (B) The trench was first sounded during the Challenger Expedition in 1875.  
 (C) The trench is about 2550km long and an average width of only 69km.  
 (D) At the bottom of the trench the water column above exerts a pressure over 1000 times the standard atmospheric pressure at sea level.
69. The endangered Olive Ridley Turtle has the world's largest congregation at  
 (A) Sagarmatha  
 (B) Gahirmatha  
 (C) Lakshadweep Islands  
 (D) Andaman Coast
70. Choose the correct sequence in the decreasing order of mean net primary productivity (dry gram/m<sup>2</sup>/yr) from the following:  
 (A) Temperate grassland, Boreal forest, Tropical forest, Temperate forest  
 (B) Temperate forest, Temperate grassland, Boreal forest, Tropical forest  
 (C) Tropical forest, Temperate forest, Boreal forest, Temperate grassland  
 (D) Boreal forest, Temperate forest, Temperate grassland, Tropical forest
71. Which one of the following is called an incomplete cycle?  
 (A) Nitrogen cycle  
 (B) Oxygen cycle  
 (C) Phosphorus cycle  
 (D) Carbon cycle
72. The most harmful of ultraviolet radiations is  
 (A) UV– C  
 (B) UV– B  
 (C) UV– A  
 (D) UV– X
73. Which of the following causes the greatest number of extinction of species?  
 (A) Competition with introduced species  
 (B) Commercial hunting  
 (C) Pollution  
 (D) Habitat alteration
74. A farmer in a semi-arid area claims that his farming practice is very environment friendly. Which of the following practices on his farm can justify his claim?  
 1. Planting a tree belt  
 2. Practising crop rotation  
 3. Carrying out a large scale irrigation system  
 4. Using organic fertilizers  
 Select the correct answer using the codes given below:  
 (A) 3 and 4  
 (B) 1, 2 and 4  
 (C) 1, 3 and 4  
 (D) 1, 2, 3 and 4
75. Who among the following has influenced thoughts of Arne Naess associated with the philosophy and movement 'deep ecology'?  
 (A) Karl Marx  
 (B) B. R. Ambedkar  
 (C) M. K. Gandhi  
 (D) J. L. Nehru

***1317-III***

**X-12**

**ROUGH WORK**