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

Signature of Invigilators

1. _____
2. _____

1317

Question Booklet Series

X

PAPER-II

Question Booklet No.

(Identical with OMR Answer Sheet Number)

Subject Code : 13

GEOGRAPHY

Time : 1 Hour 15 Minutes

Maximum Marks: 100

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 fifty (50) 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)** **(C)** **(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 II

1. The Central Place Theory

- (A) explains distribution of settlements only.
- (B) hinges upon both fundamental and derivative concepts.
- (C) considers settlement hierarchy.
- (D) has no place for manufacturing activities.

2. At the end of the 20th century, which of the following produced highest amount of food?

- (A) Africa
- (B) Asia
- (C) Latin America
- (D) Former Soviet Union

3. Adiabatic temperature changes in atmosphere is caused by which one of the following?

- (A) convection and advection
- (B) latent heat of condensation
- (C) expansion and compression of the air
- (D) partial absorption of solar radiation by the atmosphere

4. A ring of coral reef and small sandy islands that encircle a shallow lagoon is called

- (A) fringing reef
- (B) barrier reef
- (C) atoll
- (D) debris of dead coral reef

5. Match *List-I* with *List-II* and select correct answer by using the codes given below the list:

<i>List-I</i>	<i>List-II</i>			
(Water mass)	(Average Temperature, °C)			
(a) Antarctic Bottom	(i) 2·5			
(b) North Atlantic Deep	(ii) 16·0			
(c) Red Sea Intermediate	(iii) -0·4			
(d) South Indian Ocean	(iv) 23·0			
	(a)	(b)	(c)	(d)
(A)	(iii)	(i)	(ii)	(iv)
(B)	(iii)	(i)	(iv)	(ii)
(C)	(iv)	(iii)	(ii)	(i)
(D)	(iv)	(ii)	(i)	(iii)

6. Which of the following is *not* among the four coral reef regions of India identified by the Government for intensive conservation and management?

- (A) Gulf of Mannar
- (B) Gulf of Khambat
- (C) Lakshadweep Islands
- (D) Andaman and Nicobar Islands

7. *Assertion (A)*: The Himalayas have attained the isostatic equilibrium.

Reason (R): The Himalayan rivers have rejuvenated in the past.

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.

8. During the weathering of feldspars, all the following are produced except

- (A) clay
- (B) iron oxides
- (C) soluble carbonates
- (D) colloidal silica

9. Two glaciers cutting headward from opposite directions form a

- (A) Cirque
- (B) Esker
- (C) Drumlin
- (D) Col

10. Acid rain is formed due to contribution from the following pair of gases:

- (A) Methane and Ozone
- (B) Oxygen and Nitrous oxide
- (C) Methane and Sulphur dioxide
- (D) Carbon dioxide and Sulphur dioxide

11. Species diversity in an ecosystem is usually measured by using

- (A) Shannon Index
- (B) Shannon-Wiener Index
- (C) Wiener Index
- (D) Weaver Index

12. Psammosere is a succession which starts its development on

- (A) bare surface produced by a landslide.
- (B) bare sand in a cold desert region.
- (C) bare, loose sand either on sea or lake shores.
- (D) mudflats.

13. Bulk density of soil is ratio between:

- (A) pore space and mass of solid soil.
- (B) mass of solid soil and pore space.
- (C) soil particles and moisture content of soil particles.
- (D) moisture content of soil and soil particles.

14. Which of the following is incorrect about the stratosphere?

- (A) It extends upwards for 80 kilometres or more above troposphere.
- (B) It is cold, cloudless with extremely thin air.
- (C) Dust in small proportion is present.
- (D) There are marked seasonal temperature changes.

15. The dynamic theory of Monsoon is based on

- (A) differential heating of land surface.
- (B) differential heating of land and water surfaces.
- (C) seasonal shifting of the pressure belts.
- (D) Southern Oscillation Index.

16. *Assertion (A):* The Bay of Bengal is a breeding ground of tropical cyclones.

Reason (R): The Bay of Bengal is a tropical sea.

Codes:

- (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.

17. Which geographer was credited with the development of Orthographic and Stereographic projection?

- (A) Hipparchus
- (B) Anaximander
- (C) Ptolemy
- (D) Strabo

18. Who was the first geographer to prepare the world Map?

- (A) Herodotus
- (B) Thales
- (C) Anaximander
- (D) Hecataeus

19. *Assertion (A):* Interannual variability of rainfall is the highest in the north-western part of India.

Reason (R): The north-western part of India receives the lowest amount of mean annual rainfall in the country.

Codes:

- (A) Both (A) and (R) are correct and (R) explains (A).
- (B) Both (A) and (R) are correct, but (R) does not explain (A).
- (C) (A) is correct, but (R) is false.
- (D) (R) is correct, but (A) is false.

20. The bubonic plague, which swept across Europe in the 14th century, is also known as:

- (A) The Black Death
- (B) The Blue Death
- (C) The Red Death
- (D) The Yellow Death

21. The term used to explain urban growth around metropolitan cities consisting of city core and continuous types of sprawl is known as:

- (A) Exploded city
- (B) Outgrowth city
- (C) Suburban city
- (D) Satellite city

22. New Economic Geography is an approach

- (i) associated with a group of American neo-classical economists.
- (ii) applies theoretical rigour to space-economy.
- (iii) employs econometric techniques.
- (iv) criticised by Paul Krugman.

Which of the above is correct?

- (A) (iv) only
- (B) (iv), (iii) and (ii)
- (C) (ii), (iii) and (iv)
- (D) (i), (ii) and (iii)

23. The concept of 'Topophilia' was introduced into Geography in 1961 by

- (A) Yi - Fu - Tuan
- (B) Bunske . E
- (C) Ciddens . A
- (D) Mann . A

24. The belief that social conditions, not environment, are the dynamic force behind cultural development is termed as

- (A) Cultural convergence
- (B) Possibilism
- (C) Multilinear Evolution
- (D) Environmental Determinism

25. Demographic Transition theory states that, as a country becomes industrialized

- (A) the birth rate declines and then the death declines
- (B) the death rate declines, but not the birth rate
- (C) neither birth nor death rate declines
- (D) the death rate declines and then the birth rate declines

26. The higher percentage of population under 15 years of age is concentrated in which continent?

- (A) Africa
- (B) Asia
- (C) South America
- (D) Europe

27. As per the World Health Organisation, how much percentage of pregnancy or its management related deaths take place in developing countries?

- (A) 50%
- (B) 75%
- (C) 95%
- (D) 99%

28. Mappable unit of an area (on ground) in a map of 1 : 50000 scale is

- (A) 100 hectares
- (B) 10 hectares
- (C) 1 hectare
- (D) 0.1 hectare

29. Which one of the following statements is incorrect with regard to a Lorenz Curve?

- (A) It always starts at (0,0) and ends at (1,1).
- (B) It is constructed on the basis of cumulative frequencies.
- (C) The ratio of the area between the line of perfect equality and the observed Lorenz curve to the area between the line of perfect equality and the line of perfect inequality is expressed as 'The Ginni Coefficient'.
- (D) The Lorenz curve cannot rise above the line of perfect equality.

30. 'Standard error' of the sample of success can be determined by the following formula:

(A) \sqrt{pq}

(B) $\sqrt{\frac{\sigma}{n}}$

(C) $\sqrt{\frac{pq}{n}}$

(D) $\frac{\sigma}{\sqrt{n}}$

31. Which one of the following is a relative measure of dispersion?

(A) Range

(B) Quartile Deviation

(C) Standard Deviation

(D) Coefficient of Variation

32. Which one of the following statements is correct with reference to fog?

(A) It is a kind of mist with very low visibility.

(B) It occurs in the lower part of the troposphere.


(C) It is produced due to air drainage.


(D) It is mainly found in the coastal areas.

33. How is the area of a city most likely to be represented on a 1 : 25,000 scale map?

(A) —

(B) •

(C) 

(D) • — 

34. Counter-urbanization is

(A) the process of urban sprawling.

(B) the process of nucleation of land settlement patterns.

(C) the movement of householders from urban areas to suburbs.

(D) a process of population decentralization prompted by several factors, including the cost of living.

35. According to R. P. Misra, K. V. Sundaram and B. L. S. Prakash Rao the number of planning regions in India are as follows:

(A) 13 macro and 36 meso regions

(B) 15 macro and 25 meso regions

(C) 7 macro and 42 meso regions

(D) 5 macro and 35 meso regions

36. Canal irrigation is most important in the Northern Plains of India, because

- (A) the soil is porous.
- (B) the level of underground water is high.
- (C) the sources of canals are perennial rivers.
- (D) the region is densely populated.

37. There is now a tendency to set up more sugar producing factories in South India because of

- (i) longer crushing season.
- (ii) higher productivity of sugarcane.
- (iii) scarcity of other cash crops.
- (iv) efficient transport system.

Which of the above answers are correct?

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

38. Mention one large antecedent river from the following that cut into the portion of the Eastern Ghats and flowing down towards the Bay of Bengal.

- (A) Subarnarekha River
- (B) Penar River
- (C) Brahmani-Baitarani River
- (D) Mahanadi River

39. Who is the author of “Chamars of Uttar Pradesh”?

- (A) Rana P. B. Singh
- (B) S. Raju
- (C) A. B. Mukherji
- (D) R. K. Mukherjee

40. The branch of science dealing with the improvement of human race is called

- (A) Genealogy
- (B) Cloning
- (C) Eugenics
- (D) Euphenics

41. Who among the following is known for his/her works on vernacular houses in India?

- (A) Schwartzberg
- (B) Noble
- (C) Turner
- (D) Geddes

42. Match the following correctly:

- | | |
|------------------------------|------------------|
| (a) Service centre planning | (i) F. Perroux |
| (b) Growth for hierarchy | (ii) P. Sengupta |
| (c) Economic regionalization | (iii) S. Wanmali |
| (d) Growth pole | (iv) R. P. Misra |

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

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

List-I

List-II

- | | |
|----------------------------|-------------------------------|
| (International boundaries) | (Countries involved) |
| (a) McMahon Line | (i) India and Bangladesh |
| (b) Radcliffe Line | (ii) Pakistan and Afghanistan |
| (c) Durand Line | (iii) India and China |
| (d) Medicine Line | (iv) Canada and the USA |

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

44. Which of the following is *not* an example of 'Prorupt State'?

- (A) South Africa
- (B) Thailand
- (C) Myanmar
- (D) Afghanistan

45. Contour survey requires the following instruments/equipments:

- (i) Prismatic Compass
- (ii) Plumb Bob
- (iii) Measuring Tape
- (iv) Dumpy Level
- (v) Alidade
- (vi) Measuring Staff

Choose the correct answer using the codes given below:

- (A) (i), (ii), (iii), (v) and (vi)
- (B) (i), (ii), (iii), (iv) and (vi)
- (C) (iv), (v) and (vi)
- (D) (iii), (iv), (v) and (vi)

46. Agro-forestry and Social forestry both include

- (A) Production forestry
- (B) Commercial forestry
- (C) Afforestation
- (D) Plantation of trees

47. Which among the following occupations does not fall under the Quaternary Sector?

- (A) Doctors and Nurses
- (B) College and University Teachers
- (C) Businessmen and Truck Drivers
- (D) Bank Officers and Tax Consultants

48. Which of the following is the dominant fuel that is trapped in the form of gas hydrates at low temperature and high pressure within the sea bed?

- (A) Methane
- (B) Hydrogen
- (C) Hydro-carbons
- (D) Carbon Monoxide

49. In the ancient period the boundaries developed as the

- (A) Boundary line
- (B) Frontier
- (C) Natural landforms
- (D) Demarcation

50. As per the UNDP's Human Development Report, 2016, which countries are among the top three?

- (A) Austria, Finland, Sweden
 - (B) Sri Lanka, Norway, France
 - (C) Norway, Australia, Switzerland
 - (D) Maldives, Norway, Sri Lanka
-

1317-II

X-12

ROUGH WORK