

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

23-0009-AL

TEST BOOKLET

GEOGRAPHY

(Time Allowed: 3 hours)

PAPER - I

(Maximum Marks: 300)

INSTRUCTIONS TO CANDIDATES

Read the instructions carefully before answering the questions: -

1. This Test Booklet consists of 20(twenty) pages and has 75 (seventy-five) items (questions).
2. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
3. **Please note that it is the candidate's responsibility to fill in the Roll Number and other required details carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet and the Separate Answer Booklet. Any omission/discrepancy will render the OMR Answer Sheet and the Separate Answer Booklet liable for rejection.**
4. Do not write anything else on the OMR Answer Sheet except the required information. Before you proceed to mark in the OMR Answer Sheet, please ensure that you have filled in the required particulars as per given instructions.
5. Use **only Black Ball Point Pen** to fill the OMR Answer Sheet.
6. This Test Booklet is divided into 4 (four) parts - **Part - I, Part - II, Part - III and Part - IV.**
7. All three parts are **Compulsory.**
8. **Part-I consists of Multiple Choice-based Questions.** The answers to these questions have to be marked in the **OMR Answer Sheet** provided to you.
9. **Part-II, Part-III and Part-IV consist of Conventional Essay-type Questions.** The answers to these questions have to be written in the separate **Answer Booklet** provided to you.
10. In Part-I, each item (question) comprises of 04 (four) responses (answers). You are required to select the response which you want to mark on the OMR Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
11. After you have completed filling in all your responses on the OMR Answer Sheet and the Answer Booklet(s) and the examination has concluded, you should hand over to the Invigilator **only the OMR Answer Sheet and the Answer Booklet(s).** You are permitted to take the Test Booklet with you.
12. **Penalty for wrong answers in Multiple Choice-based Questions:**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to the question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to the question.
 - (iii) If a question is left blank. i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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PART - I
(Multiple Choice-based Questions)

Instructions for Questions 1 to 50:

- *Choose the correct answers for the following questions.*
- *Each question carries 3 marks.*

[3x50=150]

1. Match the following:

- A. Rock Glacier Creep
- B. Creep
- C. Rock Creep
- D. Talus Creep

- I. The downslope movement of individual rock blocks
- II. The downslope movement of scree
- III. Slow movement downslope of soil and rock debris
- IV. The downslope movement of tongues of rock waste

Codes:

- (a) A – I, B – IV, C – II, D – III
- (b) A – I, B – II, C – III, D – IV
- (c) A – IV, B – III, C – I, D – II
- (d) A – III, B – I, C – II, D – IV

2. Which of the following is Hwang Ho?

- (a) Cuspate
- (b) Estuarine
- (c) Lacustrine
- (d) Arcuate

3. Which of the following is associated with Monoclinial Folds ?

- (a) The limb inclines steeply at the right angle, and the slope is almost vertical
- (b) Unequal and irregular limbs inclined at different angles
- (c) Limbs become parallel as well as horizontal
- (d) Limbs become parallel but not horizontal

4. A– The permeability of the mantle rock and bedrock is the most important single factor influencing drainage texture.

R– Drainage lines are more numerous over impermeable materials.

To select the correct answer, use the following 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, and R is false.
- (d) A is false, but R is true.

5. Who authored the book Earthquake and Other Movements?

- (a) John Milne
- (b) Dale Ritter
- (c) James Giekie
- (d) Leopold Kober

6. A – Barchan dunes have a crescentic shape and two horns.

B – Barchan dunes form parallel to the wind direction.

For selecting the correct answer, use the following codes:

- (a) Only A is correct.
- (b) Only B is correct.
- (c) Both A and B statements are correct.
- (d) Both A and B statements are incorrect.

7. Which of the following is the metamorphic form of basalt?

- (a) Quartzite
- (b) Marble
- (c) Amphibolite
- (d) Phyllite

8. In the following statements, which ones are not true concerning Geostrophic Winds?

- I. All winds are geostrophic.
- II. Its qualitative expression is known as Buys Ballot's Law.
- III. The Coriolis Force directly balances the pressure gradient force.
- IV. Its speed depends on latitude and longitude.

For selecting the correct answer, use the following codes:

- (a) I, II, and IV
- (b) III and IV
- (c) I and IV
- (d) I, II, III, and V

9. What is the correct sequence of the cloud types in the warm front away from its trailing edge?
- (a) Nimbostratus, Altostratus, Cirrostratus, Cirrus
 - (b) Altostratus, Nimbostratus, Cirrus, Cirrostratus
 - (c) Cirrostratus, Nimbostratus, Altostratus, Cirrus
 - (d) Cirrus, Nimbostratus, Altostratus, Cirrostratus
10. Which of the following are not hot winds?
- (a) Buran, Blizzard, Sirocco, Loo, Chinook
 - (b) Blizzard, Mistral, Bora, Surazo, Zonda
 - (c) Surazo, Blizzard, Bora, Mistral, Haboob
 - (d) Surazo, Haboob, Zonda, Loo, Shamal
11. Which of the following statements are not true for Stratosphere?
- I. It has Ozone which is efficient in absorbing ultraviolet rays of insolation.
 - II. It has most of the Green House Gases.
 - III. Noctilucent clouds are found here.
 - IV. The Chapman cycle is related to the processes in the Stratosphere.
 - V. The layer experiences an Inverted lapse rate.
- Codes:**
- (a) II, IV and V
 - (b) III and IV
 - (c) I, II and IV
 - (d) II and III
12. The per minute solar radiation received on one-centimetre square at the outer surface of a plane is
- (a) Solar constant
 - (b) Reflection
 - (c) Absorption
 - (d) Convection
13. Which of the following defines Isotherombrose?
- (a) Lines joining the same mean winter temperature
 - (b) Lines joining equal amounts of sunlight
 - (c) Lines joining equal cloudiness
 - (d) Lines joining equal ratio of summer rainfall to annual rainfall

14. Which of the following factors are associated with climate change?

- I. Solar variability
- II. Volcanic Eruptions
- III. Upwelling Interactions
- IV. Tectonic Movements
- V. Glacial Deposits

- (a) I, III, V
- (b) II, III, IV, V
- (c) I, II, III, IV
- (d) I, II, IV, V

15. A – The S-shape of the ocean indicates that landmasses on either side were once a contiguous part.

R – The Atlantic Ocean was formed due to the drifting of North and South Americas to the West due to Plate-Tectonics.

For selecting the correct answer, use the following 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, and R is false.
- (d) A is false, but R is true.

16. Choose the correct statement associated with thermocline

- (a) It extends from 200 m to the bottom of the ocean and is heated directly through solar radiation
- (b) The Upper surface up to a depth of 200m and is heated directly through solar radiation
- (c) Zone of 200 m to 1000 m depth characterized by the sharp change in the density of seawater
- (d) Zone of sharp change of seawater temperature between 200 m and 1000m

17. Which of the following statements are true for ocean salinity?
- I. Ocean currents affect the spatial distribution of salinity by mixing seawaters.
 - II. It increases with increasing depth in high latitudes.
 - III. Salinity increases from the Equator towards the Poles.
 - IV. The influx of fresh water brought by the rivers into the lakes and inland seas increases the salinity.
 - V. Maximum salinity is found in the upper layer of oceanic water.
- Codes:**
- (a) III and IV
 - (b) I, II and IV
 - (c) I, II and V
 - (d) IV and V
18. What is the percent of calcium carbonate in Blue Mud?
- (a) 32 %
 - (b) 33%
 - (c) 35%
 - (d) 37%
19. _____ are sand bars formed so that one end is attached to the land while the other end projects or opens out towards the sea.
- (a) Longshore Bars
 - (b) Spits
 - (c) Beach ridges
 - (d) Sabkha
20. Which of the following describes genotype?
- (a) Most inclusive reproductive community
 - (b) The local population of interbreeding individuals
 - (c) The genetic makeup of an individual
 - (d) The totality of the genes or genotypes of all individuals within a reproductive community at a given time.

21. Arrange the following levels of organization in decreasing order of hierarchy:

- I. Community
- II. Ecosystem
- III. Biome
- IV. Population
- V. Individual

Codes:

- (a) V, IV, I, II, III
- (b) III, I, II, IV, V
- (c) I, III, IV, V, II
- (d) II, V, III, IV, I

22. Find the incorrect pair from the following pairs -

- (a) Vertisols – Disturbed and inverted clay soils
- (b) Aridisols – Saline and alkaline soils of deserts
- (c) Alfisols – Leached basic or slightly acidic soils
- (d) Oxisols – Deeply weathered, leached acid soils

23. Concerning “Keystone Species,” consider the following statements:

- I. They have lower levels of biomass in the trophic pyramid.
- II. Their existence is crucial to their ecosystem’s survival.
- III. They are connected to all the species in the food web.
- IV. Snowshoe Hares and Sea Otters are predominant keystone species.

Which of the given statements are correct?

- (a) I, II, III and IV
- (b) I, II and III
- (c) II, III and IV
- (d) II, and IV

24. A – Storage of seeds in banks is an example of ex-situ conservation.

R – Ex-situ conservation is primarily practiced by setting a protected area and is more cost-effective.

To select the correct answer, use the following code:

- (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 the A
- (c) A is true, and R is false.
- (d) A is false, but R is true.

25. Which of the following defines Commensalism?
- (a) Neither species affects the other
 - (b) One species is harmed while the other species is unaffected.
 - (c) One species benefit, while the other species is neither harmed nor inhibited
 - (d) Interaction is favourable to both species
26. Find the correct pairs from the following -
- I. F. K. Schaefer – Exceptionalism
 - II. O.H.K Spate – Idealism
 - III. Jean Brunhes - Functionalism
 - IV. Arne Naess – Deep Ecology
 - V. David Harvey – Pragmatism
- Codes:**
- (a) I, II, and III
 - (b) I, III, and IV
 - (c) IV and V
 - (d) I, II, III, and V
27. Who is the author of *Kitab-al-Ashkal*?
- (a) Al Beruni
 - (b) Al Masudi
 - (c) Al Idrisi
 - (d) Al Balkhi
28. Who gave the following statement – “Man is the product of Earth’s Surface.”
- (a) E. Huntington
 - (b) E. C. Semple
 - (c) J. Brunhes
 - (d) A. Hettner
29. The theme for Human Development Report 2021-22 was –
- (a) Human Development for Everyone.
 - (b) Uncertain times, Unsettled lives: Shaping our Future in a World in Transformation.
 - (c) Recovery and Reconstruction.
 - (d) None of the above

30. According to Broek and Webb, which of the following is an example of a Minor Cultural Realm?

- I. Islamic Realm
- II. Indian Realm
- III. Southeast Asian Realm
- IV. Occidental Realm
- V. East Asian Realm
- VI. Meso-African Realm

Codes:

- (a) III and V
- (b) II and V
- (c) II and VI
- (d) III and VI

31. What is the local name of the shifting cultivation practiced in Sri Lanka?

- (a) Roka
- (b) Chena
- (c) Konoku
- (d) Ladang

32. The higher energy crisis contributes to -

- I. Low Inflation
- II. Poverty
- III. Slowed Economic Growth
- IV. Increasing Unemployment
- V. Recession
- VI. Food Security

Codes:

- (a) I, II, III, IV and VI
- (b) II, III, IV and V
- (c) II, III, IV and V
- (d) I, III, V and VI

33. According to Global Food Security Index Report 2022, what is its rank in India?

- (a) 64
- (b) 66
- (c) 70
- (d) 68

34. A –The quaternary industry comprises information-based or knowledge-oriented products and services.
B – The industries of this sector include banking, finance, insurance, investment, and real estate services. Tourism, security, and defence services.
For selecting the correct answer, use the following codes:
(a) Only A is correct.
(b) Only B is correct.
(c) Both A and B statements are correct.
(d) Both A and B statements are incorrect.
35. A – Trading Blocs are group/s of countries with similar political views.
R - Trade creation occurs when a country enters a free trade area /agreement.
For selecting the correct answer, use the following 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 the A
(c) A is true, and R is false.
(d) A is false, but R is true.
36. Migration from developed to less developed regions is called –
(a) Emigration
(b) Immigration
(c) Perverse Migration
(d) Reverse Migration
37. A - According to UN Population Report, it took the global population 11 years to grow from 7 billion to 8 billion.
B – the global population is growing at its slowest rate since 1950, falling under 1 percent in 2020.
(a) Only A is correct.
(b) Only B is correct.
(c) Both A and B are correct.
(d) Both A and B are incorrect.

38. Arrange the following stages of the development of cities:

- I. Metropolis
- II. Polis
- III. Megalopolis
- IV. Eopolis
- V. Necropolis
- VI. Tyrannopolis

Codes:

- (a) VI, V, IV, III, II, I
- (b) IV, II, I, III, VI, V
- (c) I, II, III, IV, V, VI
- (d) IV, I, II, VI, V, III

39. Who proposed the Multiple Nuclei Theory?

- (a) C. Harris
- (b) E.L. Ullman
- (c) W. Christaller
- (d) Both (a) and (b)

40. A – The preventive checks of the Malthusian Theory correct the imbalance through preventive measures to control population growth.

B – The positive checks are the anthropogenic factors that connect food supply and population growth.

For selecting the correct answer, use the following codes:

- (a) Only A is correct.
- (b) Only B is correct.
- (c) Both A and B statements are correct.
- (d) Both A and B statements are incorrect

41. With reference to the Nearest Neighbour Analysis, consider the following statements:

- I. The fractional distance between each point and its nearest neighbour is measured in measuring the distribution of points over an area.
- II. The Rn value determines the randomness of the given settlements.
- III. Clustered settlement patterns are distributed in a dispersed manner.
- IV. It measures the spread of the distribution of something over a geographical space.

Which of the given statements are correct?

- (a) I and II
- (b) II, and III
- (c) I and III
- (d) II and IV

42. The city region is an example of which of these regions?
- (a) Functional region
 - (b) Formal region
 - (c) Campaign region
 - (d) Ad-hoc region
43. Who among the following is credited with incorporation of concept of geographical space in the Growth Pole Theory?
- (a) Myrdal
 - (b) Haggerstand
 - (c) Boudeville
 - (d) Friedman
44. Who propounded the Cumulative Causation Theory?
- (a) Rostow
 - (b) Schumpeter
 - (c) Friedmann
 - (d) Myrdal
45. Who stated, “Regionalization is similar to classification”?
- (a) R. E. Dickinson
 - (b) A. K. Philbrick
 - (c) E. A. Wrigley
 - (d) D. Grigg
46. Who proposed the General Systems Theory in Geography in the 1960s and 1970s?
- (a) M. Chisholm
 - (b) Brian J. L. Berry
 - (c) L. Von Bertalanffy
 - (d) M. J. Woldenberg

47. With reference to the Central Place Theory, consider the following statements:
- I. Christaller dealt only with retailing functions.
 - II. He assumed constant utilities across all consumers and shop owners.
 - III. He based his Theory on three concepts – the range of goods, the threshold of a good, and agglomeration economies.
 - IV. To derive the geography of the location of different orders, he argued that shop owners locate their establishments as close to the market as possible.
- Which of the given statements are correct?**
- (a) I and III
 - (b) I and II
 - (c) I, II and IV
 - (d) I, II, III and IV
48. Who stated – “Biologically, man is the same everywhere and is engaged in reproduction, but culturally, man differs from one part of the world to another”?
- (a) W. S. Thompson
 - (b) G. Trewartha
 - (c) E. Reclus
 - (d) E. Huntington
49. The Theory of ‘Pivot Area’ was renamed by Mackinder in 1919 as ‘Heartland’ in which of his books?
- (a) The Geographical Pivot of History
 - (b) The Scope and Methods of Geography
 - (c) The Democratic Ideals and Reality
 - (d) The Britain and the British Seas
50. A – Von Thunen argued that the sectoral fields are the most irrational in reducing the time the farmers travel around the farm.
 R – Sectoral fields are not common but are used in varying farming systems and environments.
- (a) Both A and R are true R is the correct explanation of A.
 - (b) Both A and R are true R is not the correct explanation of A
 - (c) A is true, and R is false.
 - (d) A is false, but R is true.

PART - II
(Short Answer-type Questions)

Instructions for Questions 51 to 63:

- *Write the answers in short for any 10 (TEN) out of the thirteen questions.*
- *Each question carries 5 marks.* *[5x10=50]*

51. Write a note on mountain building in the context of geosynclinal theory.
52. How has the human community responded to the climatic changes in the urban environment?
53. Fishing economies are an important part of the countries' development. Discuss the above statement in light of the warm and cold currents of the Atlantic Ocean.
54. Explain the differences between the spring and neap tides.
55. Explain the geographical factors that influence the patterns of rural and urban settlements.
56. How do economic activities impact the environment?
57. How does soil revitalization help in mitigating ecological disasters?
58. What is environmental education's role in managing and conserving the environment?
59. What are the parameters for deriving the Human Development Index?
60. Language is one of the pillars of culture. Elaborate.
61. Does humanistic geography practically give a solution to contemporary environmental problems? Explain briefly.
62. Write in short about the various methods of delineation of formal regions.
63. How is Malthusian Theory applicable in the contemporary period?

PART - III
(Long Answer-type Questions)

Instructions for Questions 64 to 71:

- *Answer any 5 (FIVE) out of the eight questions.*
- *Each question carries 10 marks.*

[10x5=50]

64. Social capital has become a prerequisite in a technologically effective and driven society. Elucidate the above statement in the present context.
65. Explain the Floatation Theory of Isostasy. How is it different from the Theory of equal masses underlying equal area?
66. How do the problems of deforestation pose a threat to sustainability?
67. Explain the tricellular meridional circulation of the atmosphere.
68. Oceans are the resources of the future, but it needs better management. Explain.
69. Discuss the various paradigms explaining the (hu)man-environment relationship in geography.
70. Citing suitable examples, explain how globalization affects developing countries' trade patterns.
71. A finite world can support only a finite population. Explain the above statement in the context of over, under, and the optimum population at the global level.

PART - IV
(Essay-type Questions)

Instructions for Questions 72 to 75:

- *Answer any 2 (TWO) out of the four questions.*
- *Each question carries 25 marks.*

[25x2= 50]

72. Critically examine and differentiate the Central Place Theory of Christaller and Losch.

73. Compare and contrast the Penck and Davis model of erosion. Also, explain the different stages/phases of landform development with suitable diagrams.

74. Examine the problems of urbanization in developing countries and explain how the concept of sustainability leads to inclusive development.

75. Discuss the basic criteria used in Thornthwaite's climate classification of 1948. How does this differ from Koppen's classification of World climatic regions?
