2023

GEOGRAPHY — HONOURS

Paper : CC-3

(Human Geography)

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Category - A

Answer *any five* questions (each within 50 words).

2×5

1. Which are the universalizing religions of the world?

2. Name the major racial groups of the world.

3. Mention two features of pastoral nomadism.

4. What is meant by 'zero population growth'?

5. What is 'population resource region'?

6. State two features of compact settlement.

7. What is 'range' and 'threshold' of goods and services?

Category - B

Answer *any four* questions (each within 150 words).

5×4

8. Explain two basic elements of Human Geography.

9. Differentiate between 'race' and 'ethnicity'.

10. Distinguish between Brazilian Type Population Resource Region and United States Type Population Resource Region according to Ackerman's scheme.

11. Give a brief account of the traditional livelihood pattern of the Eskimo people.

12. How does topography influence the type of rural settlements?

13. Write a brief note on the sector model of urban morphology.

Please Turn Over

Category - C

Answer *any two* questions (each within **500** words).

14. Discuss the characteristics of Landscape and Locational approaches in Human Geography.　　5+5

15. Give an account of the spatial distribution of major language families in the world.　　10

16. Analyze the influencing factors behind the uneven distribution of population over the world.　　10

17. Give an account of the regional variation of rural house types in India with examples.　　10

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2023

GEOGRAPHY — HONOURS

Paper : CC-4

(Thematic Mapping and Surveying)

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Use of Scientific Calculators is allowed in this Examination / Paper.

Category - A

Answer *any five* questions (each within **50** words).

1. (a) Size of a soil particle is 0.00002 meters in diameter. How is this number written in scientific notation?

   (b) The average distance between Earth and Moon is 3.825×10^5 kilometers. Convert and write this distance in standard form, without power of 10.

   (c) Round off the following number to tenths place : 87.952.

   (d) How many significant figures / digits are there in : 0.0000407?   ½×4

2. Mention the relationship between natural logarithms and 10 base logarithms.   2

3. What symbols are used to represent the following weather phenomenon on a weather map? (a) Snow, (b) Haze. In which season will there be precipitation predominantly in some stations of extreme North-Western India?   1+1

4. What is the main utility of Transit Theodolite?   2

5. Given that BS at X is 1.670 meters, IS at next station Y is 1.875 meters and FS at Z is 1.990 meters and there is no change point. Mention whether land slope is rising or sloping down from X to Z and, by what amount.   2

6. Differentiate between sills and dykes. How will you identify them on a geological map?   1+1

7. Which diagrams / maps will be used to represent the following socio-economic characteristics?   ½×4

   (a) Land use pattern of an area

   (b) Distribution pattern of different minerals in West Bengal

   (c) Cropping Intensity in different blocks

   (d) Commuter Movement around a metropolis.

Please Turn Over

(2)

Category - B

Answer *any four* questions (each within **150** words).

8. What are the objectives and functions of NRSC / Bhuvan? 5

9. Distinguish between magnetic bearing and true bearing. What are the sources of error in a Prismatic Compass? 2+3

10. State the significance of point and line symbols in thematic maps. 5

11. What is apparent dip? How will you identify folded and horizontal structures in geological maps? 2+3

12. Mention the objectives of Land Use and Land Cover maps. 5

13. Determine the elevation of the topmost point P of a hill above MSL from the field notes taken with a Theodolite. (Note A, B and P lie in the same vertical plane) 5

Instrument at	Height of the instrument above ground surface (m)	Vertical angle of P	Remarks
A	1.450	32°40'	Distance of AB = 80m
B	1.755	22°30'	RL of A = 45.150m

14. What is the smallest accurate reading that can be taken in an Abney Level? State the basic operating principle of the Laser Distance Meter. 1+4

Category - C

Answer *any two* questions (each within **500** words).

15. What is socio-economic data? Discuss with relevant examples the different methods for diagrammatic representation of data. 2+8

16. The following are the bearing of lines of a Closed Traverse.

Line	Fore Bearing	Back Bearing
AB	301°	119°30'
BC	236°30'	58°
CD	115°	297°30'
DA	57°	236°

(a) Correct the bearings for local attractions.

(b) Calculate the included angles of the traverse.

(c) Undertake checking to verify if the sum of interior angles is correct. 4+4+2

(3)

17. Discuss the different parts of a Dumpy Level and mention the uses of each part in detail. Define datum surface and collimation level. 2+8

18. Compare the isobaric pattern, wind direction and speed and variation in cloud amount across the Indian sub-continent on weather maps representing pre-monsoon and post-monsoon seasons. Use diagrams to illustrate your answer. 5+5

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