Total number of printed pages-4

14 (GGY-3) 3116

2023

GEOGRAPHY

Paper: GGY-3116

(Quantitative and Cartographic Methods in Geography)

Full Marks: 80

Time: Three hours

The figures in the margin indicate full marks for the questions.

UNIT-I

(40 Marks)

Answer Question No. 1 and any three from the rest.

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 What is meant by 'Quantification in Geography'? With necessary illustrations critically discuss its significance in geographical studies. 4+12=16

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OR

What is geographical data? Discuss with examples the nature, types and acquisition of geographical data. 2+14=16

- 2. Distinguish between probability sampling and non-probability sampling. Discuss their characteristic significance in geographical data collection. 2+6=8
- 3. What is a hypothesis? Explain the significance and procedure of applying a parametric test in hypothesis testing.

2+6=8

- 4. What do you mean by 'Regional pattern analysis'? Discuss the procedure of applying a meaningful statistical technique in this respect.

 2+6=8
- 5. What is spatial relationship? With necessary illustrations discuss its significance in geographical analysis. 2+6=8
- 6. Write short explanatory notes on the following: 4×2=8
 - (a) Limitations of quantitative analysis in geography
 - (b) Normal distribution and its significance

UNIT-II

(40 Marks)

Answer Question No. 7 and any three from the rest.

7. What is surveying? Explain its principles with reference to triangulation, traverse and leveling. 2+14=16

OR

What is thematic mapping? Discuss with illustrations the principles and procedure of preparing choropleth and isopleth maps. 2+14=16

- 8. Discuss the significance of cartography in geography.
- 9. What is zenithal projection? With necessary diagrams discuss its principles of construction and uses. 2+6=8
- 10. Describe the procedure of representing socioeconomic data with respect to point, line and polygon.
- 11. Explain the principles and procedure of plane table surveying with the help of radial and intersection methods.

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- 12. Write short explanatory notes on the $4 \times 2 = 8$ following: following: 4×2

 (a) Chorochromatic mapping

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(b) Base map and its characteristics

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