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.*

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

Contd.

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. 8

9. What is zenithal projection? With necessary diagrams discuss its principles of construction and uses. 2+6=8

10. Describe the procedure of representing socio-economic data with respect to point, line and polygon. 8

11. Explain the principles and procedure of plane table surveying with the help of radial and intersection methods. 8

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12. Write short explanatory notes on the following : 4×2=8

   (a) Chorochromatic mapping

   (b) Base map and its characteristics

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