Total number of printed pages-4

14 (SEM-3) GGY 3116

## 2024

## **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

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(Marks: 40)

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

1. What do you mean by qualitative and quantitative analysis? Discuss with illustration their utilities in geographical studies.

4+12=16

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### Or

What is spatial interaction? Explain with hypothetical data the procedure for computing intensity of spatial interaction and population potential. 2+14=16

- 2. Explain the concept of geographical data with respect to their nature, types and level of measurement.
- Discuss with examples the application of probability in sample selection and sample data analysis.
- 4. Distinguish between parametric and nonparametric tests in hypothesis testing. With a hypothetical set of geographical data explain the application of a non parametric test for testing a hypothesis.

3+5=8

5. What do you mean by spatial pattern? Discuss with examples the procedure of analysing the pattern of spatial distribution and concentration of geographical phenomena in an area. 2+6=8

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- 6. Write short explanatory notes on the following: 4×2=8
  - (a) Geographic data matrix
  - (b) Non-Probability sampling

### UNIT-II

(Marks: 40)

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

7. What is map projection? Discuss its major categories and their principles of construction and associated properties.

2+2+8+4=16

## Or

With necessary illustration discuss the principles and procedure of representing physical geographic data.

16

- 8. What is map? Explain its role in geographical studies. 2+6=8
- 9. Distinguish between plane surveying and geodetic surveying. Explain the principle of triangulation in geodetic surveying. 3+5=8
- 10. What is thematic mapping? Classify thematic maps with respect to their principles and characteristics. 2+6=8

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- 11. Discuss the importance of digital cartography in present day context.
- 12. Write short explanatory notes on the following: 4×2=8

- (a) Concept of 3-D mapping
- (b) Traverse surveying