

Total number of printed pages-3

14 (SEM-IV) GGY 4206 (D)

2025

GEOGRAPHY

(Optional)

Paper : GGY-4206 (D)

(Cartography)

Full Marks : 80

Time : Three Hours

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

Unit - 1

Answer **any three** of the following questions :

16×3=48

1. Discuss the importance of the thematic cartography in geographical studies and highlight its regional approach. 10+6=16
2. With necessary illustrations state the characteristics of point, line and polygon data and explain the techniques of their meaningful representation. 6+10=16

3. Discuss the underlying differences between choropleth and isopleth maps with appropriate examples. Explain the need of proper data grouping for the purpose of preparing choropleth maps. $8+8=16$
4. Explain with suitable illustrations the geometry of air photo and associated photogrammetric principles for interpretation and mapping. $6+10=16$
5. Distinguish between digital cartography and GIS. With necessary illustrations, highlight the interrelationship between them. $6+10=16$

Unit - 2

Answer **any four** of the following questions :

$8 \times 4 = 32$

6. Highlight the role of remote sensing in thematic mapping.
7. Discuss the varying characteristics of remote sensing data with respect to spatial and spectral resolution in particularly land use land cover mapping.

8. What is relief displacement? Derive its formula in a vertical air photo. $2+6=8$
 9. Discuss the role of GIS in spatial analysis and mapping.
 10. Highlight the prospects and emerging challenges in thematic cartography.
 11. Write short explanatory notes on the following : $4 \times 2 = 8$
 - (a) Volumetric data and its representation
 - (b) Types of air photo
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