

M. SC. (GEOGRAPHY)

(MSCGG)

Term-End Examination

December, 2025

**MGG-011 : GEOGRAPHICAL INFORMATION
SYSTEM (GIS)**

Time : 3 Hours

Maximum Marks : 100

***Note :** Question Nos. 1 and 2 are compulsory.*

*Attempt any **five** out of seven questions
from Q. Nos. 3 to 9. Marks are indicated
against each question.*

Section—A

1. Write short notes on any *five* of the following
in about **150** words each : 5×4=20

(i) Cartography and GIS

- (ii) Vector data
- (iii) Crowd sourcing
- (iv) Overlay Analysis
- (v) Conventional signs
- (vi) Spatial Interpolation
- (vii) G-Governance

Section—B

2. Attempt any *five* questions. Your answer should be in about **300** words each : $5 \times 6 = 30$

- (i) Write about the procedures and workflow in GIS.
- (ii) Highlight the recent trends in GIS.
- (iii) Briefly explain data standards in GIS.
- (iv) What is scale ? Discuss its types.

- (v) Discuss GIS applications in water resource management.
- (vi) Describe the role and importance of GIS in Business.
- (vii) Briefly explain the processes involved in environmental planning.

Section—C

Note : Attempt any *five* questions. Your answer should be in about **500** words each.

5×10=50

- 3. Write a detailed note on Geography as a spatial science.
- 4. Discuss the nature of GIS.
- 5. What are map projections ? Discuss in detail the major types of projections based on developable surface with diagram.

6. Explain different processes for data capturing and storage in GIS.
7. Discuss data updation and techniques.
8. Describe the role of GIS in Spatial Decision Support System (SDSS).
9. Explain Environmental Impact Assessment (EIA) and the role of GIS in EIA.

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