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MGG-011

M. SC. (GEOGRAPHY) (MSCGG)

Term-End Examination

June, 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 : $5 \times 4 = 20$
 - (i) Crowd Sourcing

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- (ii) Raster Data
- (iii) Smart Maps
- (iv) Metadata
- (v) Spatial Statistics
- (vi) Symbolisation
- (vii) Spatial Autocorrelation

Section—B

2. Attempt any *five* questions. Your answer should be in about **300** words each : $5 \times 6 = 30$
- (i) Describe the major components of GIS in brief.
 - (ii) Give a brief discussion on the relevance of GIS.
 - (iii) Briefly explain maps as geographic information.

- (iv) List and explain non-spatial data file types.
- (v) Discuss GIS application in land resource management.
- (vi) Describe the role and importance of GIS in Transportation.
- (vii) Briefly explain any *six* functionalities of GIS in environmental preservation.

Section—C

Note : Attempt any *five* questions. Your answer should be about **500** words each. $5 \times 10 = 50$

- 3. Write a detailed note on Geography in every day life with examples.
- 4. Discuss the nature and philosophy of science.

5. What are spatial framework and referencing ? Explain in detail.
6. Give a detailed discussion on various data sources of GIS.
7. Explain data integration in GIS.
8. Describe the concept of Spatial Decision Support System (SDSS). Explain its importance in detail.
9. Explain in detail trends of GIS applications in urban and regional planning.

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