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MGG-011

M. SC. (GEOGRAPHY)

(MSCGG)

Term-End Examination

June, 2026

MGG-011 : GEOGRAPHICAL INFORMATION

SYSTEM (GIS)

Time : 3 Hours

Maximum Marks : 100

Note : (i) Question Nos. 1 and 2 are compulsory.

(ii) Attempt any **five** out of seven questions from Q. Nos. 3 to 9.

(iii) 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) Geography and GIS
- (ii) Triangulated Irregular Network (TIN)
- (iii) Open Source Data
- (iv) Generalisation in GIS
- (v) Output Generation in GIS
- (vi) Hotspot Analysis
- (vii) Web GIS

Section—B

2. Attempt any *five* questions. Your answer should be in about **300** words each : $5 \times 6 = 30$
- (i) Write about the key functionalities and capabilities of GIS.
 - (ii) Briefly discuss the future of GIS.

- (iii) Briefly explain GIS workflow.
- (iv) What is Layout ? Describe the map layout with the help of a sketch.
- (v) Discuss GIS applications in forest resource management.
- (vi) Describe GIS applications in utilities and facilities.
- (vii) Describe in brief the contribution of ICT in automation. How GIS enhances productivity and accuracy in any *four* sectors ?

Section—C

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

$$5 \times 10 = 50$$

3. Write a detailed note on spatial problems and geography.

4. Discuss GIS as science and GIS as technology.
5. What are Coordinate Systems ? Discuss in detail the types of coordinate systems with examples.
6. Explain in detail the process of editing and error removal in GIS.
7. Discuss data manipulation in GIS.
8. Describe the key components of Spatial Decision Support Systems (SDSS).
9. Discuss the components and framework for e-governance and planning.

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