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MGYE-021

M. SC. (GEOINFORMATICS)
(MSCGI)

Term-End Examination

December, 2025

**MGYE-021 : EMERGING APPLICATIONS IN
GEOINFORMATICS**

Time : 2 Hours

Maximum Marks : 50

Note : (i) *All questions are compulsory.*

(ii) *Marks for each question are indicated against it.*

(iii) *Draw well-labelled diagrams wherever necessary.*

1. Write short notes on any *four* of the following : 4×5=20

- (a) Recent remote sensing data suitable for water resources studies
- (b) Use of IoT in agriculture

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- (c) Recent remote sensing data suitable for mineral exploration
 - (d) Recent remote sensing data useful in vegetation related studies
 - (e) Advantages of geoinformatics in ecological studies
 - (f) Use of AI and ML in health related applications
 - (g) Cadastral applications
2. Answer any *three* of the following : $3 \times 10 = 30$
- (a) Discuss the emerging applications of geoinformatics in soil related studies.
 - (b) Discuss the emerging applications of geoinformatics in digital terrain analysis.
 - (c) Discuss the emerging applications of geoinformatics in studying geological hazards.
 - (d) Discuss the emerging applications of geoinformatics in regional and global scale studies.

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- (e) Give an account of emerging applications of geoinformatics in crime related studies.
- (f) Describe the emerging applications of geoinformatics in climate related studies.

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