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MGY-011

M. SC. (GEOINFORMATICS) (MSCGI)

Term-End Examination

December, 2024

**MGY-011 : GEOENVIRONMENTAL
APPLICATIONS OF GEOINFORMATICS**

Time : 2 Hours

Maximum Marks : 50

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

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

1. Write notes on any *four* of the following :

4×5=20

- (a) Geoinformatics in mapping terrestrial habitats
- (b) Geoinformatics in land degradation studies
- (c) Potential Fishing Zone (PFZ)
- (d) Role of geoinformatics in studying ground-water depletion

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- (e) Mapping geological structures using remote sensing
 - (f) Land Surface Temperature (LST)
 - (g) Coastal Regulation Zone (CRZ)
2. (a) Discuss the recent developments in the field of watershed applications with respect to geoinformatics. 10

Or

- (b) What are image features that characterise a gently dipping sedimentary rock in a terrain ? How will you approach for the geological mapping of non-layered rocks using remote sensing techniques ? 2+8
3. (a) Discuss recent developments in the field of urban applications. 10

Or

- (b) Discuss the methodologies for mapping coastal habitats. Explain the criteria of selection of data for mapping coastal habitats.

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4. (a) Discuss recent developments in the field of coastal environmental applications. 10

Or

- (b) Explain different types of landforms. Write a note on recent developments in landform mapping.

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