

**A-639**

Total Pages : 3

Roll No. ....

**GIS-602**

**APPLICATION OF GEO INFORMATICS  
(PART-III)**

**(MSCGIS)**

3rd Semester Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

**Note :-** This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section-A**

**Long Answer Type Questions**      2×19=38

**Note :-** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

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( 1 )

P.T.O.

1. What are the various regions of electromagnetic spectrum, which part is most suitable for vegetation mapping and why ?
2. Discuss about the various type of hazards and the role of geo-informatics in hazard management.
3. Discuss about the role of geo-informatics in supply and chain management.
4. Frame the criteria for the site suitability analysis for the identification of suitable landfill sites and write the complete geospatial workflow to carry out this suitability analysis.
5. Write short note on :
  - (a) Natural Hazard Risk and Vulnerabilities
  - (b) Site Suitability Analysis

### **Section–B**

#### **Short Answer Type Questions**      4×8=32

**Note** :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Define is urban sprawl and GIS can help in mapping the urban sprawl.

2. How is remote sensing useful for forest fire mapping ?  
Which agencies in India are using RS and GIS for forest fire mapping ?
3. What is Critical Facility Mapping (CFM) and what are its benefits ?
4. What are the different type of risk assessments and how GIS is useful in natural hazard risk assessment ?
5. Name *five* source of geospatial data for natural resource management along with their classification as raster or vector.
6. Define Digital Elevation Model (DEM) and name five source of DEM.
7. What are the different source of a LULC map, name five application of a LULC map ?
8. What is utility mapping and how is it accomplished ?

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