

**A-0445**

**Total Pages : 4**

**Roll No. -----**

**GIS-602**

**Application of Geo Informatics Part-III**

**(MAGIS/MSCGIS)**

**3<sup>rd</sup> Semester Examination 2024(Dec.)**

**Time: 2:00 hrs**

**Max. Marks: 70**

**Note :** This paper is of Seventy (70) marks divided into Two (02) Section 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.

**P.T.O.**

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## **Section-A**

### **(Long-Answer-Type Questions)**

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.

[2x19=38]

- Q.1. How does the application of geo-informatics in forest management, contribute to effective forest inventory and deforestation? Discuss in detail.
- Q.2. How does the use of remote sensing technologies and GIS tools facilitate the detection and monitoring of forest cover changes over time?
- Q.3. How can geo-informatics tools like GIS and remote sensing contribute to disaster risk management by identifying high-risk zones, planning emergency responses, and improving infrastructure resilience?

- Q.4. Discuss the importance of Town Resource Information Systems in Urban planning, infrastructure development, and disaster management.
- Q.5. Discuss the role of Geographic Information Systems (GIS) and remote sensing technologies in evaluating land for urban expansion, considering aspects such as topography, soil type, infrastructure availability, environmental protection, and socio-economic factors.

### **Section-B**

#### **(Short-Answer-Type Questions)**

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.

[4x8=32]

- Q.1. Discuss the forests types in India.

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- Q.2. Explain the spectral characteristics of vegetation.
- Q.3. Write the application of RS & GIS in town planning?
- Q.4. What is the significance of Hazard Vulnerability?
- Q.5. Discuss the hazards and their types?
- Q.6. Discuss town resources information.
- Q.7. What is residential area analysis.
- Q.8. Explain in brief the land suitability analysis for Town area development.

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