

**A-0446**

**Total Pages : 4**

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

**GIS-603**

**Application of Geo Informatics Part-IV**

**(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.**

**A-0446**

**1**

## **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 to detect forest cover change detection using satellite data. Explain in detail.
- Q.2. What is Electromagnetic Radiation? Discuss in detail about Interaction process of Electromagnetic Radiation with the vegetation.
- Q.3. Explain in detail the role of Geo-Informatics in disaster reconnaissance and forecasting.
- Q.4. Discuss the application of Remote Sensing and GIS in land suitability analysis for urban development.
- Q.5. What are the advantages of Geo-Informatics in infrastructure facilities and services for urban area?

## **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. Explain spectral and temporal characteristics of vegetation.
- Q.2. How does GIS aid in biodiversity studies?
- Q.3. How do Remote Sensing and GIS helpful in flood risk assessment mapping.
- Q.4. How does Geospatial technology helpful in urban resources information and management.
- Q.5. Explain the application of Geo-Informatics in seismic damage and loss estimation mapping.

P.T.O.

- Q.6. Explain the role of GIS in slum and squatteral settlement planning.
- Q.7. What is the role of SDI in emergency response system during disaster?
- Q.8. How does GIS aid in traffic management?

\*\*\*\*\*