

**A-0443**

**Total Pages : 4**

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

**GIS-509/DGIS-509**

**Applications of Geoinformatics**

**(MAGIS/MSCGIS/DGIS)**

**2<sup>nd</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-0443**

## **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. Define Geoinformatics and describe field of sciences which are categorized within earth sciences?
- Q.2. Explain the application GIS on fluvial geomorphology and landscape change?
- Q.3. What are the basic tools of hydro-geomorphological survey? Explain how Remote Sensing and Geographical Information System (GIS) is useful in hydro-geomorphology?
- Q.4. Elaborate the use of Global Positioning System (GPS) in public safety and relief management.

Q.5. What do you mean by navigation? Explain the application of modern satellite-based navigation system?

### **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. Present a summary on the application of geoinformatics in the field of geomorphology?
- Q.2. Explain the application GIS on fluvial geomorphology and landscape change?

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- Q.3. What is watershed management? Explain how watershed analysis is useful in management and planning?
- Q.4. What are the various applications of GPS in agriculture?
- Q.5. Write note on the public safety and disaster relief?
- Q.6. How GPS is useful in drought and flood management?
- Q.7. What are the different types of roads?
- Q.8. What is intelligent transport system? Explain how it is useful to improve the operational capabilities of transport system?

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