

**P-898**

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Roll No. ....

## **GIS-508**

**Application of Geo Informatics Part-I**

**(for M.Sc. Student)**

**(MSCGIS/DGIS/CGIS)**

2nd Semester Examination, 2023 (June)

**Time : 2 Hours]**

**[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 answer to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

### **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.

(2×19=38)

1. What are broad categories into which the U.S. Department of Agriculture System of soil classification (U.S.D.A) has classified the world soils?
2. What are the various factors responsible for soil erosion?
3. What are the different applications of soil survey and soil mapping?
4. Describe the approaches to map the global extent of degraded land?
5. Write the applications of GPS in agriculture yield monitoring, landslide monitoring and their management?

## **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. (4×8=32)

1. Explain the approach used to measure soil moisture using remote sensing?
2. Describe the different types of water erosion.

3. What is the exogenetic landform?
  4. What are the main advantages of remote sensing in hydro-geomorphological studies?
  5. Describe soil erosion modelling using geoinformatics?
  6. What are the different types of drainage systems?
  7. What is GIS? What are the different components of GIS?
  8. Write a short note on the application of GPS in rail navigation?
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