

**K-789**

Total Pages : 3

Roll No. ....

## **EVS-607**

### **RS, GIS AND GPS: BASICS AND APPLICATIONS**

M.Sc. Environmental Science (MSCES)

4th Semester Examination, 2023 (Dec.)

**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 answers 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. Discuss integration of RS and GIS modelling in detail.
2. What are land resources? Explain the concept of resource mapping in detail.
3. What is Photogrammetry? Define techniques and applications of photogrammetry.
4. Define data. Discuss method of GIS data creation in detail.
5. What is modelling? Discuss general types of models in detail.

### **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. Write a short note on weather and communication satellites.
2. Write a short note on image pre-processing.
3. Write a brief note on Indian global positioning system-GAGAN.
4. What is mathematical topology? Explain topology model.

5. Differentiate between DEM and TIN.
  6. Explain the role of RS and GIS in biodiversity conservation.
  7. Discuss applications of remote sensing in wildlife mapping.
  8. Discuss concept of urbanization.
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