P-509

EVS-607

RS, GIS and GPS: Basic and Applications

M.Sc. Environmental Science (MSCES)

4th 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.

$(2\times19=38)$

1. What are aerial photographs? Discuss basic concepts and types of aerial photography.

2. What do you know about the Geographical Information System (GIS)? Describe in detail about different components or segments.of Global Positioning System (GPS) and their functions.

3. What is remote sensing? Discuss in detail about the energy interaction with earth surface material.

4. What are sensors? Classify various sensors. Discuss various platform and sensors in detail.

5. What do you understand by Human settlements planning? Discuss urban and rural planning in India.

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. Comment on Disaster Management.

2. Briefly describe Digital Image Interpretation.

3. Explain Data compaction techniques in Raster GIS.

4. Describe Data storage in vector data.

5. Discuss Application of remote sensing in forest studies.

6. Explain Image interpretation for ground water study.

7. Discuss Applications of watershed modeling

8. How settlements are classified? Explain.

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