A–580

EVS–607

RG, GIS AND GPS : BASICS AND APPLICATIONS

M.Sc. Environmental Science (MSCES)

4th Semester Examination, 2024 (June)

Time : 2:00 Hrs.   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   2×19=38

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.

1. What do you understand by GIS and GPS ? Discuss its components, and applications.

2. What do you understand by Platforms and sensors ? Discuss classification of sensors.

3. What are water resources ? Discuss remote sensing and GIS techniques for ground water studies.

4. What is image interpretation ? Differentiate between visual image interpretation and digital image interpretation.

5. Write an essay on image enhancement and its methods.

Section–B

Short Answer Type Questions   4×8=32

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.

1. Briefly discuss the historical evolution of remote sensing technology.

2. Differentiate between BIP and BIL.

3. Briefly discuss the types and properties of aerial photography.

4. What is chain coding ? Explain.

5. Write a short note on digital elevation model (DEM).

6. What is terrain mapping ? Explain.

7. Discuss applications of remote sensing in forest studies.

8. Write a brief note on Disaster management.

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