A-0439

GIS-505/DGIS-505/MGIS-505

Advance Remote Sensing

(MAGIS/MSCGIS/DGIS/CGIS)

2nd 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.

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.   What are the methods of acquiring Remote Sensing data from different sensors? Explain.

Q.2.   Explain Hyperspectral Remote Sensing. What are the characteristics of Hyperspectral sensors?

Q.3.   What is Microwave Remote Sensing? Explain how Microwave Remote Sensing is useful in environmental monitoring.

Q.4.   Explain in detail the application of Synthetic Aperture Radar (SAR) data.

Q.5.   Explain different types of Digital Image Processing techniques with the suitable examples.

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.   Explain various types of Remote Sensing sensors.

Q.2.   Explain the components of Microwave Remote Sensing with suitable diagrams.

Q.3.   What are the geometrical characteristics of microwave image?

Q.4.   Explain Characteristics of Thermal Remote Sensing?

Q.5.   Write note on the Atmospheric Corrections.

P.T.O.

Q.6. Explain the Contrast Adjustment and Noise Removal techniques.

Q.7. Distinguish spatial Filtering techniques and frequency domain techniques of image enhancement.

Q.8. Explain various types of Band Combinations with suitable example.

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