

S-1187

Total Pages : 3

Roll No.

RSGIS-23

Remote Sensing and GIS

MA/MSc Geo informatics (MA/MSCGIS)

3rd Semester Examination, 2022 (Dec.)

Time : 2 Hours]

Max. Marks : 100

Note : This paper is of Hundred (100) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Twenty six (26) marks each. Learners are required to answer any Two (02) questions only.

(2×26=52)

- 1.** Explain digitization. Write the advantages and disadvantages of digitization.

2. Explain what is meant by 'map interpretation' and what procedure is followed for its interpretation.
3. What do you understand by hyperspectral remote sensing? Discuss development of hyperspectral sensors.
4. Why is microwave remote sensing better suited for monitoring tropical rain forests than optical remote sensing?
5. Define Synthetic Aperture radar. How the image of a SAR system is formed.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Twelve (12) marks each. Learners are required to answer any Four (04) questions only.

(4×12=48)

1. Explain the concept of colour theory.
2. Write differences between multispectral and hyperspectral remote sensing.
3. Write steps involved in the hyperspectral pre-processing.
4. Explain what is a SAR system.

5. What are the impacts of dielectric constants on radar returns?
 6. What is overshoot, undershoot and slivers in vector data?
Give suitable examples.
 7. Explain different types of Geographic Data.
 8. Write the significance of Topology.
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