P-905

Roll No. ....

RSGIS-23

Remote Sensing and GIS

MA/MSC Geo informatics (MA/MSCGIS)

3rd Semester Examination, 2023 (June)

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. 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 Twenty six (26) marks each. Learners are required to answer any Two (02) questions only.

(2×26=52)

1. Discuss application and role of hyperspectral data in mapping of hydrothermally altered zones.

2. What is Synthetic Aperture radar. How the image of a SAR system is formed.

3. What are the impacts of radar polarization on interactions with earth features?

4. What do you understand by Layers and Coverage in GIS?

5. Write a note on Data manipulation language and their types.

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.

$$(4 \times 12 = 48)$$

1. What is the relationship between cartography and GIS?

2. What are the uses of maps in cartography?

3. What is the role of the base map?

4. What is the process of scanning?

5. What is the advantage of color theory?

6. What are the limitations of hyperspectral data?

7. What are the challenges of hyperspectral data interpretation?

8. Describe the need for calibration of hyperspectral sensor.

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