**Roll No. ------------------**

**RSGIS-23**

**Remote Sensing and GIS**

MA/MSC Geo informatics (MA/MSCGIS)

3rd Semester Examination 2024 (Dec.)

**Time: 2 Hours Max. Marks: 100**

**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. How will you measure the area of an irregular tract of land using geometric shapes?
2. Discuss Hyperspectral and ultra spectral remote sensing datasets.
3. Why is microwave remote sensing better suited for monitoring tropical rain forests than optical remote sensing?
4. What are the impacts of radar polarization on interactions with earth features?
5. How we store the characteristic of geographic features in GIS? Explain Noon-spatial data.

**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. What are the major advantages of digitization?
2. Write the major steps of digitization?
3. Define the elements of maps?
4. Define hyperspectral remote sensing?
5. Describe briefly the pre-processing steps?
6. What is the difference between monostatic and bistatic antennas?
7. What do you understand by Radar principle?
8. What is binary data?