

**MASTER OF SCIENCE IN  
GEOGRAPHY (MSCGG)**  
**Term-End Practical Examination**  
**June, 2025**

**MGGL-003(Set-I) : GEOSPATIAL ANALYSIS**

*Time : 3 Hours* *Maximum Marks : 50*

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***Note : Attempt any **five** questions. Marks are indicated against each question.***

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1. Explain the data structure of various types of GIS data. Open the given shape file into QGIS and identify its projection and attributes. 10
2. Georeference the given scanned map using at least *four* Ground Control Points (GCPs). Find the RMS error. 10

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3. Digitise a georeferenced map into polygon features. Attach the given attribute data with digitized map. 10
4. Interpret the given satellite imagery and prepare Landuse Land Cover (LULC) map. Explain the steps followed. 10
5. What is ‘crowdsourcing’ ? Download Open-Streetmap and extract roads with ‘Highway’ classification. Compose a map of extracted roads. 10
6. Conduct a hotspot analysis using the provided data. Visualise the results using density raster and classify areas into hotspots. 10
7. Explain the basic elements and steps of creating map layout. Prepare a proper map layout of given map. 10

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