No. of Printed Pages : 2 **MGGL–003(Set-I)**

M. Sc. (GEOGRAPHY)

(MSCGG)

Term-End Practical Examination

June, 2026

MGGL-003(Set-I) : GEOSPATIAL ANALYSIS

Time : 3 Hours *Maximum Marks : 50*

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

1. Illustrate and explain the user hyperface of QGIS. Add any given jpeg map in a QGIS platform and save the project. 10
2. Explain 'georeferencing'. Georeference a given map/toposheet by adding GCPs and write the steps involved in it. 10
3. What is vector data model ? Create point, line and polygon features from a given georeferenced raster map. Add two properties for each created feature. 10

4. Explain the concept of crowdsourcing in GIS. How do you add open street map to a project ? Write down the steps and show open street map of your area and locate your exam centre. 10

5. What are spatial data queries ? Explain the steps to select features by location. Select polygon features that come under 500 m radius from your exam centre. 10

6. Explain the process of map layout generation. Generate a final map layout for the given georeferenced map. Add map title, scale, north arrow, grid line and legends to the map. 10

7. Discuss the steps involved in crime mapping. Create a heat map using the given excel file containing crime data. 10

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