No. of Printed Pages : 3 **MGYL–104(Set-I)**

M. SC. (GEOINFORMATICS)

(MSCGI)

Term-End Practical Examination

June, 2025

MGYL-104(Set-I) : GEOINFORMATICS LABORATORY

Time : 3 Hours *Maximum Marks : 30*

Note : *(i) All questions are compulsory. Marks allotted for each question are indicated against it.*

(ii) Evaluation would be done under three parameters (performance, result / output and viva-voce).

(iii) The data to be used in the examination is provided in the computer by your centre coordinator.

(iv) Keep all the soft copy results/outputs appropriately organized in your computer in a folder with your enrollment number.

(v) Incomplete and illegible outputs will not be evaluated.

1. Perform the tasks mentioned below and submit the results/outputs :

   (a) Generate contours with an interval of 100 m and 150 m from the given set of data (A). Prepare a map showing DEM (in pseudocolour) and the contours with proper labelling and map elements. 2+3

   (b) Generate histogram of 'band 2' and 'band 4' of the given set of data (B) with proper labelling. Write in your answer-sheet the inferences you can draw from the histograms about the images. 2+2

(c) Prepare a mosaic of all the bands given in the set of data (B). Prepare visual image interpretation keys for any *five* Land Use Land Cover (LULC) classes that can be mapped in the standard FCC created. Write your answer in the answer-sheet given. 2+5

(d) Georeference the data given in the dataset (D). Digitize the railway line connecting Delhi and Tughlaqabad railway stations as a line feature and Gurgaon as a polygon feature from the georeferenced data. 2+2

(e) Using georeferenced data created at 1(d), digitize Palam Airport; the highway connecting New Delhi and Gurgaon; and populated places Delhi Cantonment and Gurgaon as point, line and polygon features, respectively. Also compose a map showing the digitized features with appropriate map elements. 3+2

2. Viva-voce. 5

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