No. of Printed Pages : 4 **MGYL–104(Set-I)**

POST GRADUATE CERTIFICATE IN GEOINFORMATICS/POST GRADUATE DIPLOMA IN GEOINFORMATICS/ M. SC. GEOINFORMATICS (PGCGI/PGDGI/MSCGI)

Term-End Practical Examination

June, 2026

MGYL-104(Set-I) : GEOINFORMATICS LABORATORY

Time : 3 Hours *Maximum Marks : 50*

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

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

(iii) The data to be used in the examination are provided by the examination centre in the computer allotted to you.

(iv) The data to be used for the examination are in the folders named as A, B, C, ... , which are mentioned in the question paper as (A), (B), (C), ..., respectively.

(v) Keep all the soft copy results/outputs appropriately in the computer in a folder with your enrollment number, other answers are to be written in the answersheet.

(vi) Incomplete or illegible results/ outputs will not be evaluated.

1. Perform the following tasks and submit the results/outputs :

   (a) Extract contours of 150 m interval and create a slope map from the given data (A). Compose a map showing the DEM in pseudocolour, extracted contours and the slope map with appropriate labelling and map elements. 2+3

(b) Create a colour composite from the given dataset (B) through layer stacking. 1+2

(c) Prepare in your answer sheet visual image interpretation keys of any three land use land cover classes that can be mapped in the true colour composite created. 3

(d) Digitise all the features present in the colour composite for the three land use land cover classes. The digitised features should also have their required attributes. 6

(e) Prepare a map showing the true colour composite and the digitised features with all the suitable map elements. 2

(f) Georeference the data (D). 2

(g) Draw histogram of band 3 from the given data (A) in your answer sheet. Also write the inferences you can draw about characteristics of the image through the histogram. 1+1

(h) Create NDVI image from the given data (B) and compose a map with all the suitable map elements. 1+1

2. Viva-voce. 5

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