

No. of Printed Pages : 3 **MGYL-004(Set-I)**

POST GRADUATE CERTIFICATE IN
GEOINFORMATICS (PGCGI)

Term-End Practical Examination

June, 2025

MGYL-004(Set-I) : GEOINFORMATICS

PRACTICAL

Time : 3 Hours *Maximum Marks : 30*

Note : (i) All questions are compulsory.

Marks are indicated against each question.

(ii) *Evaluation would be done under 3 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.*

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- (iv) *Keep all the soft copy of the results/outputs appropriately organized in your computer in a folder with your enrollment number.*
- (v) *Incomplete and illegible results/outputs will not be evaluated.*
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1. Perform the tasks mentioned and submit the results/outputs :

(a) Using the given data (A), create contours with an interval of 50 m and 150 m. Compose a map showing the DEM (in pseudocolour) and the generated contours with appropriate labelling, colours and map elements.

2+3

(b) Mosaic the individual bands of the given dataset (B). 2

(c) Draw spectral profiles of any *three* Land Use and Land Cover (LULC) classes that can be mapped from the mosaiced data. Explain the salient features observed in the profiles. 3+2

[3]

- (d) Prepare visual image interpretation keys of the three classes. 3
- (e) Perform georeferencing on the given data (D). 2
- (f) Digitise the railway line connecting Delhi and Tughlaqabad Railway station as a line feature.

Also digitise polygon feature showing the Gurgaon and Bulandshahr populated places. Prepare a map showing the digitised line and polygon vector layers with appropriate map elements. 1+2+2

- (g) Create NDVI from the mosaiced image and write your observations of the generated NDVI image on your answer-sheet. 1+2

2. Viva-voce. 5

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