

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*

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**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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