

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

**POST GRADUATE CERTIFICATE IN
GEOINFORMATICS (PGCGI)**

Term-End Practical Examination

December, 2024

MGYL-004(Set-II) : GEOINFORMATICS

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.*

(iv) *Keep all the soft copy of results/outputs appropriately organised 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 set of data (A), create contours with an interval of 20 m and 200 m. Compose a map containing the DEM in pseudocolour and the derived contours with appropriate labelling, colours and map elements. 2+3
 - (b) Draw histogram of 'band 4' from the given dataset (B). Write significance of the histogram drawn. 2+2
 - (c) Mosaic the individual bands of the given dataset (B). Prepare image interpretation keys of any *three* landuse land cover classes that can be mapped in the Standard False Colour Composite (SFCC) of the mosaiced image. 2+3
 - (d) Create NDVI from the dataset (B) and compose a map showing the SFCC and the NDVI (in pseudocolour) with required map elements. 2+2

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- (e) Geo-reference the given data (D). Prepare a point layer showing the two airports and also a line layer of the road network linking New Delhi to Gurgaon with appropriate attributes. Compose a map showing both the layers in a single map layout with required map elements. 2+2+3

2. Viva-voce.

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