

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

Term-End Practical Examination

June, 2018

MGYL-004(P) : GEOINFORMATICS PRACTICAL

Time : 3 Hours

Maximum Marks : 30

Note :

- (i) *All the 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 Co-ordinator.*
- (iv) *Keep all the soft copy results/outputs appropriately in your computer in a folder with your enrolment number.*
- (v) *Incomplete and illegible results/outputs will not be evaluated.*

1. Perform the tasks mentioned below and submit the results/outputs :
 - (a) Create contours with an interval of 100 m from the given data (A). Compose a map showing the contours over the DEM displayed in pseudocolour with all map elements. 2+2
 - (b) Apply histogram equalisation and linear stretching techniques for the given data (B) and write the differences in result in your answer sheet. 2+2
 - (c) Draw histogram for 'band 2' and 'band 4' of the data (B) in your answer sheet. 1+1
 - (d) Prepare visual interpretation keys for 3 land use and land cover (LULC) features on standard FCC created from the data set (B). 3×2=6
 - (e) Perform complex attribute query operation and generate map for the places having population more than 10,000 in Uttar Pradesh State using the given data (C). Write about the steps involved in query operation. (Hint : 'Uttar Pradesh is represented in the field 'ADM1NAME' and population in 'POP_MAX') 2+2
 - (f) Georeference the given data (D) and then prepare (i) a point layer showing the two airports (ii) a line layer linking road network from New Delhi to Gurgaon, with appropriate attributes. Compose a map showing both the layers in a single map layout with appropriate map elements. 5
2. Viva-voce 5