

MGYL-004 (Set-1)
POST GRADUATE CERTIFICATE IN GEOINFORMATICS
(PGCGI)
Geoinformatics Practical

Duration : 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 (i.e. performance, result/output and viva-voce).
 - (iii) The data to be used in the examination is provided by the Centre Co-ordinator 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.
 - (vi) Incomplete and illegible results/outputs will not be evaluated.

1. Perform the tasks mentioned and submit the results/output:

- (a) Generate contours with an interval of 100m from the give data (A).
Prepare a map comprising the DEM (displayed in pseudo colour) and the derived contours with suitable map elements. 2+3

- (b) Draw histogram of 'band 3' of the given handset data set (B). Write the inferences you can draw from the histogram about characteristics of the image in your answer sheet.
- (c) Generate SFCC from the data set (B). Prepare interpretation keys for 3 landuse landcover (LULC) features in your answer sheet.
- (d) Apply histogram equalization and linear stretching techniques to the data generated at 1(c). Write in your answer sheet the differences you observe in the outputs.
- (e) Georeference the given data (D). Digitize railway line connecting Khurja and Bulandshahr as line feature and two habitated places i.e. Rohtak and Rewari as polygon features. Compose a map showing the digitized features with appropriate map elements. 2+2+3

2. Viva-voce.

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