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MGYL-004

Post Graduate Certificate in Geoinformatics (PGCGI) Term-End Examination December, 2018

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 enrollment number.

(v)　Incomplete and illegible results/outputs will not be evaluated.

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1. Perform the tasks mentioned below and submit the results/outputs :

   (a) Using the given data (A) generate two contour files with an interval of 50 m and 100 m each and compose a map showing the two files with all map elements.   2 + 3

   (b) Draw histogram of 'band 3' of the given data set (B) with neat labelling and briefly describe the characteristics of the image in your answer sheet.   2 + 2

   (c) From the given data set (B) perform layer stack operation. Prepare visual image interpretation keys for five classes that can be mapped in the Standard False Colour Composite (SFCC).   2 + 5

   (d) Perform georeferencing of the given data (D) and write down the steps involved in georeferencing in your answer sheet.   2 + 2

   (e) From the georeferenced data created at Question 1(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.   3 + 2

2. Viva-voce.   5