

No. of Printed Pages : 3 **MGYL-012(Set-I)**

M. SC. (GEOINFORMATICS)
(MSCGI)

Term-End Practical Examination

December, 2024

**MGYL-012(Set-I) : ADVANCED GEOINFORMATICS
LABORATORY**

Time : 3 Hours

Maximum Marks : 30

Note : (i) *All questions are compulsory. Marks are indicated against each question.*

(ii) *Evaluation would be done under three parameters (i. e., performance, results / outputs and viva-voce).*

(iii) *The data to be used in the examination are either provided by the examination centre in the computer allotted to you or can be downloaded/used using internet specifically for the questions related to GEE, etc.*

- (iv) *The data provided in the computers 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 approximately in the computer in a folder with your enrollment number. Other answers are to be written in the answer sheet provided to you.*
- (vi) *Incomplete and illegible results/outputs will not be evaluated.*
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1. (a) Prepare landuse land cover map of Delhi region using Landsat-8 OLI dataset of the year 2015 or 2016 using Google Earth Engine. Write the steps you have used to preprocess the data and apply a classification algorithm and also its interpretation in the answer sheet. 6+4
- (b) Create a False Colour Composite (FCC) from the given dataset (B) and classify the FCC using Python to create a landuse land cover map having at least 4 classes. 1+4=5

[3]

- (c) Publish a vector dataset in Geoserver and make it available as a Web Feature Service (WFS). Also write the major steps. 3+2=5

[Hint : You can use the data in the folder (E).]

- (d) Write the steps for creating a spatial table in postgresSQL with Post GVS extension to store point data representing city locations. 2

- (e) Write the steps for creating a basic map in open layers and display it on a webpage. 3

2. Viva-voce. 5

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