

No. of Printed Pages : 4

MGY-001

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

Term-End Examination

Dec., 2021

MGY-001 : INTRODUCTION TO GEOINFORMATICS

Time : 2 Hours

Maximum Marks : 50

Note : (i) *All questions are compulsory.*

(ii) *Internal choices are given in question nos. 2 to 4.*

(iii) *The marks for each question is indicated against it.*

1. Answer all parts :

(a) Fill in the blanks with appropriate word(s) : 3×1=3

(i) PSLV stands for

(ii) LIDAR is a/an remote sensing sensor.

P. T. O.

(iii) Digital Elevation Model is an example of data model.

(b) State if the following statements are True (T) or False (F) : 3×1=3

(i) Bhuvan is a satellite of Indian Remote Sensing Satellite series.

(ii) The sequential arrangement of pixels forms an image data format.

(iii) Large scale map shows a small area with detailed information.

(c) Match the items given in column A with those given in column B : 4×1=4

Column A

Column B

(i) Datum (1) State wide area network

(ii) Thematic map (2) Forest fire detection

(iii) E-governance infrastructure (3) Point, line and polygon features

(iv) AVHRR (4) Ellipsoid

[3]

MGY-001

2. Write short notes on any *four* of the following :

4×5=20

- (a) Web GIS
 - (b) Challenges to geoinformatics industry in India
 - (c) Sources of DEM
 - (d) Usage and functionality of FOSS
 - (e) Properties of map projection
 - (f) Map elements
 - (g) Applications of geoinformatics in forest fire monitoring
3. (a) What is geoinformatics ? Explain the components of geoinformatics with the help of a neat diagram. 10

Or

- (b) What is a topographical map ? With the help of suitable diagrams, discuss how would you identify the relief features.

[4]

MGY-001

4. Discuss the types of remote sensing data formats. 10

Or

Write a note on the applications of geoinformatics in the management of natural resources.

MGY-001

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