

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

**Term-End Examination**

**December, 2023**

**MGY-001 : INTRODUCTION TO  
GEOINFORMATICS**

*Time : 2 Hours*

*Maximum Marks : 50*

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**Note :** *All question are compulsory. Internal choices are given in question no. 2 to 4. The marks for each question are indicated against it.*

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1. Answer all parts : 3×1=3

(a) Fill in the blanks with appropriate word(s) :

(i) DEM stands for .....

(ii) Multi-spectral scanner is an example of ..... sensor.

(Hint : Active or Passive)

(iii) ..... is the technique used to obtain geometric properties of objects from their photographs.

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

(i) Remotely sensed images are a type of vector data.

(ii) Convex slope represents closely spaced contour line near the bottoms of the slopes than near the tops.

(iii) The scale of a degree map is 1 : 50,000.

(c) Match the items given in Column A with those given in Column B :  $4 \times 1 = 4$

**Column-A**

**Column-B**

(i) Band Sequential (1) Coarse Resolution Satellite Data

(ii) Cartosat-1 (2) Data Format

(iii) NDVI (3) High Resolution Satellite Data

(iv) Oceansat-1 (4) Crop Production Estimation

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

$4 \times 5 = 20$

(a) Global Positioning System

(b) Career options in geoinformatics

(c) Differentiate between COTS and FOSS

(d) Types of topographical maps

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- (e) Map elements
  - (f) Applications of geoinformatics in water resources management
  - (g) Role of geoinformatics in air pollution monitoring
3. (a) Discuss in detail, trends in GIS. 10

*Or*

- (b) Discuss different kinds of data giving suitable examples.
4. (a) What do you understand by map projection ? With the help of suitable diagram, discuss types of map projections. 10

*Or*

- (b) Give an account of the applications of geoinformatics in e-governance.