

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

Term-End Examination

December, 2024

**MGY-001 : INTRODUCTION TO
GEOINFORMATICS**

Time : 2 Hours

Maximum Marks : 50

Note : *All questions are compulsory. Internal choices are given in question nos. 2 to 4. Marks of each question are indicated against it.*

1. Answer all parts : 5×1=5
- (a) Fill in the blanks with appropriate word(s) :
- (i) is the science that deals with the study of shape and area of the Earth.
- (ii) Remote sensing data generated employing sun's energy is known as remote sensing.

- (iii) The pole to pole coverage on the Earth for each pass of satellite is given a specific term called
- (iv) is defined as a two-dimensional representation of a three-dimensional surface of the Earth.
- (v) is the process of converting an analog image or map into digital format usable by a computer.
- (b) Match the items given in Column A with the most appropriate one given in Column B : 5×1=5

Column A	Column B
(i) Aranya	(1) Vector data
(ii) Metadata	(2) Terra Satellite
(iii) ASTERDATA	(3) DEM
(iv) 3D GIS	(4) Open source tools
(v) Point feature	(5) Census India

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

4×5=20

- (a) Global Positioning System

- (b) Geoinformatics Product
 - (c) Microwave Remote Sensing
 - (d) Standards of Data Formats
 - (e) Mobile GIS
 - (f) Geoinformatics in e-Governance
3. Discuss in detail any *five* initiatives of Government of India having significant geoinformatics component. 10

Or

- (a) Describe the types of data formats depending upon the level of processing. 5
 - (b) Describe in brief UTM map projection. 5
4. Discuss in detail the application of geoinformatics in ecosystem management with special emphasis on terrestrial ecosystem. 10

Or

- (a) What is map scale ? Explain the methods of representation of map scale. 5
- (b) Discuss briefly the usage and functionality of COTS with suitable examples. 5

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