

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

Term-End Examination

June, 2021

MGY-001 : INTRODUCTION TO GEOINFORMATICS

Time : 2 hours

Maximum Marks : 50

Note : *All questions are compulsory. Marks for each question are indicated against it.*

1. Answer **all** parts of the following :

- (a) Fill in the blank spaces with appropriate word(s) : $4 \times 1 = 4$
- (i) PSLV stands for _____.
- (ii) Bhuvan is a geoportal of _____ organisation.
- (iii) A north-east oriented remotely sensed image represents _____ data product.
- (iv) _____ is the Indian national agency for the preparation and publication of the topographical maps of the country.

- (b) State whether the following statements are *True (T)* or *False (F)* : $3 \times 1 = 3$
- (i) The science of designing, constructing and producing maps is known as cartography.
 - (ii) Digital remotely sensed data is an example of spatial raster data.
 - (iii) A zero degree line, running from west to east is termed as prime meridian.
- (c) Match the items given in Column A with those given in Column B : $3 \times 1 = 3$

Column A

Column B

- | | |
|---------------------------|--|
| (i) UTM projection | (1) Crop identification |
| (ii) NDVI | (2) Open series topographical maps |
| (iii) QuickBird Satellite | (3) Investigating archaeological sites |

2. Write short notes on any **four** of the following : $4 \times 5 = 20$

- (a) Components of geoinformatics
- (b) Data and information
- (c) Applications of geoinformatics in natural resources management
- (d) Map scale and layouts
- (e) Free and open-source software
- (f) Geoinformatics in health

3. Describe recent trends in geoinformatics. 10

OR

What is Map Projection ? Discuss in detail the commonly used map projections. Add a short note on the selection of a suitable map projection to a geoinformatics project design. 10

4. Briefly describe the types and sources of geospatial data. 10

OR

Discuss the applications of geoinformatics technologies in disaster management. Support your answer by giving suitable examples from India. 10

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