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MGY-003

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

Term-End Examination

June, 2023

**MGY-003 : GLOBAL NAVIGATION SATELLITE
SYSTEM AND GEOGRAPHIC
INFORMATION SYSTEM**

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 are indicated against it.*

1. Answer all parts :

(a) Fill in the blank spaces with appropriate word(s) : $4 \times 1 = 4$

(i) The measurement of direction between two points measured clockwise from the north is known as

P. T. O.

- (ii) is used in the CAD package for transferring of data files.
- (iii) Kriging is a group of statistical techniques to the random values such as elevation.
- (iv) The mechanism intended to defeat deception jamming through encryption of military signals is known as
- (b) State if the following statements are True (T) or False (F) : $3 \times 1 = 3$
- (i) Inherent errors are errors which occur during data entry and manipulation.
- (ii) GIS system design deals with the interactions of individual people, groups of people and computers as they function within organizations.
- (iii) Despeckling is the process that improves image quality.

- (c) Match the items given in Column A with those in Column B : $3 \times 1 = 3$

Column A	Column B
(i) TRANSIT	(1) Position Dilution of precision
(ii) Trilateration	(2) NAVSTAR
(iii) Satellite receiver geometry	(3) GPS positioning

2. Write short notes on any *four* of the following : $4 \times 5 = 20$
- (a) GPS Segments
 - (b) GIS as a science and technology
 - (c) Raster data structure
 - (d) Methods of vector data input
 - (e) Types of GIS outputs
 - (f) Georeferencing
3. Describe briefly the various components of GIS with the help of neat well labelled diagrams. 10

Or

Discuss elaborately the applications of GPS.

4. What is data integration ? Discuss the *three* types of integration. 10

Or

Give an account of various operations involved in raster data analysis. Give neat well labelled diagrams wherever required.