MGY-003

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

⊓⊓6 1 9 **December, 2015**

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

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) :   *4×1=4*

      (i)   GLONASS is the navigation satellite system of _____ .

      (ii)   The abbreviation 'MCS' stands for _____ .

      (iii)   The word 'RTK' stands for _____ .

      (iv)   GIS is a computerised system that helps in evaluating _____ data.

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

   (i) GIS data model is a conceptual representation of geographic data of real world features into digitally and logically represented spatial objects.

   (ii) Geo-referencing is the process of assigning location to any entity in real world coordinates.

   (iii) Interoperability makes GIS database so rigid that it cannot be opened and analysed in any GIS environment.

(c) Match the items given in Column A with those given in Column B : *3×1=3*

   Column A   *Column B*

   (i) Data quality   (1) Maps and tables

   (ii) GIS outputs   (2) Global operations

   (iii) Raster   (3) Accuracy and
        analysis   consistency

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

   (a) Galileo

   (b) Applications of GPS

   (c) Network Modelling

   (d) Comparison of Raster and Vector Data Models

   (e) Data Integration

   (f) Cartographic GIS Output

3. Attempt any *one* part of the following :

    (a)   Discuss the segments and principles of GPS operations.   *10*

    (b)   What do you understand by data quality ? Explain in detail the various components of data quality. Add a note on the errors that occur while processing data.   *10*

4. Attempt any *one* part of the following :

    (a)   Give a brief account of the various aspects of GIS design with suitable examples.   *10*

    (b)   What is a database ? Discuss the types and models of databases with suitable illustrations.   *10*