

Diploma Course in Geoinformatics (RS, GIS & GPS) [Part Time] (ANNUAL/CR)

Annual Examination: March/April-2023

Geography (Compulsory) Paper-III

DCGT3: Geographical Information System, Spatial Analysis and Global Positioning System

Day and Date: Tuesday, 23/05/2023

Total Marks: 60

Time: 3.30 PM To 5.30 PM

Instructions:

1. All Questions are Compulsory.
2. All Questions carry equal marks.
3. Figures to the right indicate full marks

Q.1. Choose the Correct alternatives from the following.

15

- 1 TIN is a good example of
 - a. Object based model
 - b. Simple features
 - c. Georelational model
 - d. Composite feature
- 2 Select the odd from the following:
A) LINUX B) Windows XP C) Windows 8 D) M S Office
- 3 Full form of IDW :
A) Internal Distance Weighted B) Inverse Direction Weighted C) Inverse Distance Weighted D) Internal Direction Weighted
- 4 Generally, in the process of vectorization of toposheet, 'Waterbody' spatial feature is capture as a
A) Polygon Feature B) Point Feature C) Line Feature D) Dot Feature
- 5 GPS stands for.....
 - A) Global Positioning System
 - B) Geographical Positioning System
 - C) Global Partitioning System
 - D) Global Positioning Sequence
- 6 RAM stands for
 - A) Random Access Memory
 - B) Random Acquire Memory
 - C) Rational Access Memory
 - D) Random Assistant Memory
- 7 Data that describe the geometry of spatial features is called as
 - A) Attribute Data B) Original Data C) Spatial Data D) Functional Data

- 8 Thedata model, stores spatial data and attribute data in a single system.
 A) Georelational B) Object-based C) Compound D) Original
- 9 Which of the following is a type of temporary memory?
 A) Secondary Memory/Storage
 B) Primary Memory
 C) ALU
 D) None of these
- 10 Generally, in the process of vectorization of toposheet, 'Railways' spatial feature is capture as a feature.
 A) Polygon B) Point C) Polyline D) Dot
- 11 For text file format, file extention is.....
 A) .xlsx B) .pptx C) .bmp D) .txt
- 12 Coverage file is a file format.
 A) Conventional B) Topological C) Non-Topological D) Non-Conventional
- 13 Intersect overlay operation is based on the Boolean connectors.
 A) AND B) OR C) XOR D) None of these
- 14 DTM stands for
 A) Digital Transverse Model B) Digital Terrain Model C) Digital Travel Model D) Data Traffic Model
- 15 Choose odd from the below.
 A) Local Function B) Focal Function C) Global Function D) Buffer

Q.2. Write short Notes (Three out of Four) .

15

- 1 GIS Software Packages
- 2 Types of Geospatial Data
- 3 Attribute Data
- 4 Objectbased Data Models

Q.3. Write short Answers (Three out of Four) .

15

- 1 Functions of GIS
- 2 Digitizing errors
- 3 Importance of Vector Data
- 4 Interpolation methods

Q.4.. Answer the following question on broad. (One out of two).

15

- 1 Write essay on Raster Data and Vector Data.
- 2 What is Digitization Errors? Discuss the different types of Digitization Errors.

**Model Answer Paper
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Q.1. Choose the Correct alternatives from the following.

15

- 1 TIN is a good example of
- a. Object based model
 - b. Simple features
 - c. Georelational model
 - d. Composite feature
- Option 4
- 2 Select the odd from the following:
- A) LINUX B) Windows XP C) Windows 8 D) M S Office
- Option 4
- 3 Full form of IDW :
- A) Internal Distance Weighted B) Inverse Direction Weighted C) Inverse Distance Weighted D) Internal Direction Weighted
- Option 3
- 4 Generally, in the process of vectorization of toposheet, 'Waterbody' spatial feature is capture as a
- A) Polygon Feature B) Point Feature C) Line Feature D) Dot Feature
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- 5 GPS stands for.....
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- 6 RAM stands for
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 - C) Rational Access Memory
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- Option 1
- 7 Data that describe the geometry of spatial features is called as
- A) Attribute Data B) Original Data C) Spatial Data D) Functional Data
- Option 3
- 8 Thedata model, stores spatial data and attribute data in a single system.
- A) Georelational B) Object-based C) Compound D) Original
- Option 2
- 9 Which of the following is a type of temporary memory?
- A) Secondary Memory/Storage
 - B) Primary Memory
 - C) ALU
 - D) None of these
- Option 2
- 10 Generally, in the process of vectorization of toposheet, 'Railways' spatial feature is capture as a feature.
- A) Polygon B) Point C) Polyline D) Dot
- Option 3
- 11 For text file format, file extention is.....
- A) .xlsx B) .pptx C) .bmp D) .txt

Option 4

- 12 Coverage file is a file format.
A) Conventional B) Topological C) Non-Topological D) Non-Conventional

Option 2

- 13 Intersect overlay operation is based on the Boolean connectors.
A) AND B) OR C) XOR D) None of these

Option 1

- 14 DTM stands for
A) Digital Transverse Model B) Digital Terrain Model C) Digital Travel Model D) Data Traffic Model

Option 2

- 15 Choose odd from the below.
A) Local Function B) Focal Function C) Global Function D) Buffer

Option 4

Q.2. Write short Note (Three out of Four) 15

- 1 GIS Software Packages

Ans:

- 2 Types of Geospatial Data

Ans:

- 3 Attribute Data

Ans:

- 4 Objectbased Data Models

Ans:

Q.3. Write short Answers (Three out of Four). 15

- 1 Functions of GIS

Ans:

- 2 Digitizing errors

Ans:

- 3 Importance of Vector Data

Ans:

- 4 Interpolation methods

Ans:

Q.4. Answer the following question on broad. (One out of two). 15

- 1 Write essay on Raster Data and Vector Data.

Ans:

- 2 What is Digitization Errors? Discuss the different types of Digitization Errors.

Ans:
