

**M.A. (SEM/CR) CBCS Part-II Semester-IV Examination: March/April-2023**  
**Geography (Optional) Paper-XV**

**GEOO25: Fundamentals of GIS & Introduction to GPS**

**Day and Date: Saturday, 06/05/2023**

**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
4. Draw the diagram wherever necessary.
5. Allowed to use map stencil, if necessary

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

15

- 1 DEM stand for.....  
 1. Digital Elevation Model    2. Digital European Model    3. Database Elevation Model    4. None of these
- 2 DBMS stand for.....  
 1. Database Management System    2. Data Model System    3. Data Based Modular System    4. Digital Base Model
- 3 Which of the following formats can be used for GIS output?  
 1. DXF    2. PDF    3. GIF    4. HTML
- 4 ..... represents the earth's surface and includes all objects on it.  
 1. DSM    2. DTM    3. TIN    4. DEM
- 5 Spatial refers to geographic features that are represented as raster and .....  
 1. Surface    2. Loop antenna    3. Graphic values    4. Vector
- 6 Which of the following is false with respect to GPS?  
 1. Continuous system    2. Active system    3. Space based    4. All of the above
- 7 The intentional degradation of GPS signal in specific areas is called \_\_\_\_\_  
 1. Distributed GPD    2. Selective availability    3. Signal jamming    4. Selective degradation
- 8 What is the number of GPS satellites used?  
 1. 54    2. 9    3. 12    4. 24
- 9 The Global Positioning System (GPS) is a .....based navigation system made up of over 24 satellites  
 1. Mapping    2. Satellite    3. Active system    4. Topology
- 10 ..... is a collective term for types of satellite navigation systems used globally like GPS, GLONASS, Galileo and BeiDou etc.  
 1. GPS    2. GIS    3. GNSS    4. DBMS
- 11 ..... is an independent regional navigation satellite system being developed by India.  
 1. BeiDio    2. GLONASS    3. IRNSS    4. GPS

- 12 .....is a term widely used to describe the combination of spatial software and analytical methods with geographic datasets.  
 1.Geospatial 2.GPS 3.RS 4.GIS
- 13 GIS applications in..... are used for the prevention of trespassers in the vegetation species.  
 1.Forestry 2.landslide 3.landuse 4.land cover
- 14 GIS applicaation in .....are used for specific crop management, future food demand and agricultural tourism.  
 1.Urban 2.Agriculture 3.Water management 4.Environment
- 15 Soil survey is an integral part of an effective ..... research and advisory program.  
 1.Agricultural 2.climate 3.Population 4.social

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

- 1 Concept of DEM &DTM
- 2 Buffur Analysis
- 3 Segments of GPS
- 4 Application of Geospatial Technology in Landform Mapping

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

- 1 Explain the Interpolation Techniques in GIS.
- 2 List the GNSS that can be used as alternatives to GPS.
- 3 Give a brief account of Geospatial Technology in Environmeanatal studies
- 4 Write the application of GIS in Agricultural Sector?

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

- 1 Distingwish between spatial data and non spatial data.
- 2 What is GPS? Explain the Applications of GPS in various fields in geography.

## Model Answer Paper

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1. Digital Elevation Model    2. Digital European Model    3. Database Elevation Model    4. None of these

Option 1

2 DBMS stand for.....

1. Database Management System    2. Data Model System    3. Data Based Modular System    4. Digital Base Model

Option 1

3 Which of the following formats can be used for GIS output?

1. DXF    2. PDF    3. GIF    4. HTML

Option 3

4 ..... represents the earth's surface and includes all objects on it.

- 1.DSM 2.DTM 3.TIN 4.DEM

Option 1

5 Spatial refers to geographic features that are represented as raster and .....

- 1 .Surface 2. Loop antenna 3.Graphic values 4.Vector

Option 4

6 Which of the following is false with respect to GPS?

- 1.Continuous system 2. Active system 3.Space based 4.All of the above

Option 2

7 The intentional degradation of GPS signal in specific areas is called \_\_\_\_\_

- 1.Distributed GPD 2.Selective availability 3.Signal jamming 4.Selective degradation

Option 2

8 What is the number of GPS satellites used?

- 1.54 2.9 3.12 4.24

Option 4

9 The Global Positioning System (GPS) is a .....based navigation system made up of over 24 satellites

- 1.Mapping 2.Satellite 3.Active system 4.Topology

Option 2

10 .....is a collective term for types of satellite navigation systems used globally like GPS, GLONASS, Galileo and BeiDou etc.

- 1.GPS 2.GIS 3.GNSS 4.DBMS

Option 3

11 .....is an independent regional navigation satellite system being developed by India.

- 1.BeiDio 2. GLONASS 3.IRNSS 4. GPS

Option 3

12 .....is a term widely used to describe the combination of spatial software and analytical methods with geographic datasets.

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Option 2

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- 1.Agricultural 2.climate 3.Population 4.social

Option 1

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

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1 Concept of DEM &DTM

Ans:

2 Buffur Analysis

Ans:

3 Segments of GPS

Ans:

4 Application of Geospatial Technology in Landform Mapping

Ans:

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

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1 Explain the Interpolation Techniques in GIS.

Ans:

2 List the GNSS that can be used as alternatives to GPS.

Ans:

3 Give a brief account of Geospatial Technology in Environmental studies

Ans:

4 Write the application of GIS in Agricultural Sector?

Ans:

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

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1 Distinguish between spatial data and non spatial data.

Ans:

2 What is GPS? Explain the Applications of GPS in various fields in geography.

Ans:

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