

## Course outline

How does an NPTEL online course work?

Week Zero: Assignment Zero

### Week 01

- What is Geographic Information Systems ?
- Essential Components of GIS
- Different types of vector data
- Concept of topology
- Demonstration through GIS software

○ Quiz : Assignment 1

● Solution for week 01

### Week 02

### Week 03

### Week 04

### week 05

### week 06

### week 07

### week 08

### week 09

### Week 10

### week 11

### week 12

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# Assignment 1

The due date for submitting this assignment has passed.

**Due on 2021-02-03, 23:59 IST.**

As per our records you have not submitted this assignment.

1) GIS is ..... and ..... technology.

1 point

- Digital and analogue
- Spatial and analogue
- Digital and spatial
- Spatial and manual

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Digital and spatial*

2) GIS, Remote Sensing and GPS technologies are:

1 point

- Generic, digital and spatial
- Manual, spatial and digital
- Analogue, manual and spatial
- Generic, analogue and spatial

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Generic, digital and spatial*

3) Three basic kinds of vector entities are:

1 point

- Point, Raster, Attributes
- Image, Raster, Polygon
- Point, Line/Polyline, Polygon
- Polyline, Polygon, Raster

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Point, Line/Polyline, Polygon*

4) Major differences between Vector and Raster data models:

1 point

- Vector and raster are same data models
- Vector is continuous, whereas raster data model is discrete
- Vector and raster both are discrete
- Vector is discrete, whereas raster data model is continuous

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Vector is discrete, whereas raster data model is continuous*

5) Topology describes the ..... relationships between adjacent features:

1 point

- Spectral
- Special
- Spatial
- Especial

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Spatial*

6) In GIS, topology is implemented through data:

1 point

- Storage
- Raster model
- Structure
- Collection

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Structure*

7) Which of the following are true?

1 point

- Digitizing is defined as converting aerial photographs into maps
- A keyboard cannot be used to digitize maps, only to enter attribute information
- Digitizing from a tablet involves using a template
- Digitizing involves tracing map features into a computer

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Digitizing involves tracing map features into a computer*

8) Spatial referencing is the process of which of the following?

1 point

- Combing attribute values with locational information
- Referencing geo-relational tables
- Computing the reference between items in databases
- Establishing the topology of spatial objects

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Combing attribute values with locational information*

9) Which of the following is not an example of spatial data?

1 point

- Points showing location of discrete objects
- Times of particular events
- Lines showing the route of linear objects
- Polygons showing the area occupied by a particular land use or variable

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Times of particular events*

10) Geographic Information System (GIS) is a ..... based information system designed to accept large volumes of ..... data derived from variety of sources and to efficiently store, retrieve, ..... model and display (output) these data according to ..... defined specifications.

1 point

- Manual, Special, Recover, All
- Manual, Temporal, Analyses, User
- Computer, Spatial, Analyses, User
- Computer, Timely, Delete, Not

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Computer, Spatial, Analyses, User*