

Course outline

How does an NPTEL online course work?

Week Zero: Assignment Zero

Week 01

Week 02

Week 03

Week 04

week 05

week 06

week 07

week 08

- Various techniques to generate digital elevation model - (1/3)

- Various techniques to generate digital elevation model - (2/3)

- Various techniques to generate digital elevation model - (3/3)

- Digital Elevation Models and different types of resolutions

- Demonstration through GIS software

- Quiz : Assignment 8

- Solution for week 08

week 09

Week 10

week 11

week 12

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Assignment 8

The due date for submitting this assignment has passed.

Due on 2021-03-17, 23:59 IST.

As per our records you have not submitted this assignment.

1) Higher spatial resolution raster dataset will allow:

1 point

- To distinguish far spaced objects clearly
- No changes in the visibility / interpretation
- To distinguish closed spaced objects clearly
- None of the above

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
To distinguish closed spaced objects clearly

2) 10 m spatial resolution is Over 20 m spatial resolution data:

1 point

- Inferior
- Better
- No change
- None of the above

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
Better

3) If a cell of DEM is having 30m resolution, how much ground area it would represents:

0 points

- 30 m2
- 60 m2
- 90 m2
- 120 m2

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
90 m2

4) Which DEMs are having spatial resolution up to 30m:

1 point

- USGS-DEM
- USGS-DEM and SRTM-DEM
- SRTM-DEM and ASTER-GDEM
- USGS-DEM, SRTM-DEM and ASTER-GDEM

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
SRTM-DEM and ASTER-GDEM

5) Generally, which DEM is most suitable for highly rugged terrain?

1 point

- ASTER-GDEM (30m)
- SRTM-DEM (30m)
- USGS-DEM (90m)
- All of the above

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
ASTER-GDEM (30m)

6) What is spatial interpolation?

1 point

- The process of establishing values for areas outside the boundary of an existing set of data points
- The process of establishing a statistical relationship between two spatially correlated variables
- The process of modelling spatial pattern from a set of one or more data layers
- The process of establishing values for areas between an existing set of discrete observations

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
The process of establishing values for areas between an existing set of discrete observations

7) Cartosat-1 & 2 provide?

1 point

- Stereo pairs
- SAR data
- Thermal images
- LiDAR data

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
Stereo pairs

8) One powerful technique for generating digital elevation models is interferometric synthetic aperture radar where minimum..... Of a radar satellite are required?

1 point

- Single pass
- Two passes
- Three passes
- Four passes

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
Two passes

9) The direction of a slope with reference to north:

1 point

- Slope
- Gradient
- Aspect
- Slope aspect

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
Aspect

10) is a statement of the smallest unit of measurement to which data can be recorded:

1 point

- Error
- Inaccuracy
- Accuracy
- Precision

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
Precision