

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

week 09

Week 10

week 11

 DEMs derivatives-4

 Shaded relief models and their applications

 DEM based Surface Hydrologic Modelling-1

 DEM based Surface Hydrologic Modelling-2

 DEMs and Dam Simulation and its application in groundwater hydrology

 Quiz : Assignment 11

week 12

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Assignment 11

The due date for submitting this assignment has passed.

Due on 2021-04-07, 23:59 IST.

As per our records you have not submitted this assignment.

1) The shape of a cell of a DEM can only be:

1 point

- Rectangular
- Circular
- Square
- Triangle

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
Square

2) Overall shape of a DEM can only be:

1 point

- Rectangular and square
- Circular and triangular
- Square and circular
- Triangle and rectangular

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
Rectangular and square

3) Spatial resolution of a DEM is?

1 point

- Can be improved later
- Vary with time
- Fixed once the DEM is created
- None of the above

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
Fixed once the DEM is created

4) An 8-bits DEM can have total number of positive integer cell values:

1 point

- 64
- 128
- 256
- 65536

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
256

5) A DEM that shows finer details is said to be of:

1 point

- High resolution
- Coarser resolution
- Moderate resolution
- Poor resolution

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
High resolution

6) The DEM is NOT based on which of the following?

1 point

- Grid cells
- Discrete XY coordinate pairs
- Grid cells grouped to form spatial entities
- Tesselations

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
Discrete XY coordinate pairs

7) Which of the following is NOT a raster data structure?

1 point

- Spaghetti
- Run-length encoding
- Quadtree
- Block encoding

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
Spaghetti

8) Which of the following is advantage of DEMs over TINs?

1 point

- DEMs do not require interpolation of point heights
- DEMs do not require resampling if irregularly spaced input data is used
- DEMs efficiently store data over varied terrain
- DEMs use a simple data model

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
DEMs use a simple data model

9) DEMs generated from InSAR and LiDAR data generally have a spatial resolution between 100-150m:

1 point

- True
- False

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
False

10) A DEM is a digital model andD representation of a terrain's surface?

1 point

- 1
- 2
- 3
- 4

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
3