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Courses » Digital elevation models and applications		
	Announcements <b>Course</b> Ask a Question Progress Mer	ntor
Unit 5 - We	ek-4	
Course outline	Assignment: Week 4	
How to access the portal	The due date for submitting this assignment has passed. <b>Due on 2018-03-07, 23:5</b> Submitted assignment	∂ IST.
Week-1	Assignment: Week 4	
Week-2	1) A DEM is a raster representation of a surface?	1 point
	Discrete	
Week-3	<ul> <li>Continuous</li> <li>Triangulated</li> </ul>	
Week-4	Quadtree	
<ul> <li>DEM Based</li> <li>Surface</li> <li>Hydrologic</li> <li>Madelling 2</li> </ul>	No, the answer is incorrect. Score: 0	
Modelling-2 DEM and DAM	Accepted Answers: Continuous	
Simulation and Its Application In Ground Water	2) The DEM could be generated through techniques such as photogrammetry, Lidar, InSAR, land surveying, etc.?	1 point
Hydrology	<ul> <li>True</li> <li>False</li> </ul>	
<ul> <li>Applications of DEMs In Solar and Wind Energy</li> </ul>	No, the answer is incorrect. Score: 0	
Potential Estimations	Accepted Answers: True	
<ul> <li>Applications of DEMs in</li> </ul>	3) Hillshading may be created using a DEM to simulate?	1 point
Viewshed and Flood Hazard	Slope	
Mapping	<ul> <li>Aspect</li> <li>Watershed</li> </ul>	
<ul> <li>DEMs Sources, Limitations and Future of Digital</li> </ul>	Relief	
Elevation Models	No, the answer is incorrect. Score: 0	
Quiz : Assignment: Week 4	Accepted Answers: Relief	
<ul> <li>Feedback</li> </ul>	4) Grid (DEM) cell values can be:	1 point
Week-4	Only integer numbers	
Answer Key	<ul> <li>Only real (floating) numbers</li> <li>Only positive integer numbers</li> </ul>	
DOWNLOAD VIDEOS	<ul> <li>Both positive and negative integer or real (floating) numbers</li> </ul>	

No, the answer is incorrect.

Accepted Answers:

Score: 0

#### Both positive and negative integer or real (floating) numbers

5) DEMs are commonly built using data collected using remote sensing techniques, but they **1** point may also be built from land surveying:

TrueFalse

- Faise

No, the answer is incorrect. Score: 0

Accepted Answers: True

nue

6) DEMs are used often in geographic information systems, and are the most common basis for 1 point digitally produced:

- Relief maps
- Pollution maps
- Population maps
- None of the above

No, the answer is incorrect. Score: 0

Accepted Answers: Relief maps

7) There is no universal usage of the terms digital elevation model (DEM), digital terrain model **1** point (DTM) and digital surface model (DSM) in scientific literature:

TrueFalse

No, the answer is incorrect. Score: 0

Accepted Answers:

True

8) Most of the terrain data providers (e.g. USGS, ERSDAC, CGIAR, ISRO-NRSA) use the **1** point term?

- 🔍 DSM
- O DTM
- O DEM
- DES

No, the answer is incorrect. Score: 0

Accepted Answers: DEM

9) All datasets which are captured with satellites, airplanes or other flying platforms are **1** point originally:

- DTMs
- DEMs
- DSMs
- None of the above

No, the answer is incorrect. Score: 0 Accepted Answers:

DSMs

10DEMs can be generated through number of ways, however most preferred method of generating DEMs is: **1** *point* 

- Contours
- Remote sensing based
- Aerial photographs
- None of the above

No, the answer is incorrect. Score: 0

Accepted Answers: Remote sensing based

11DEMs can also be generated using the following method:

- Stereo-pairs
- Thermal infrared data
- Radar data pairs
- All of the above

No, the answer is incorrect. Score: 0

Accepted Answers: All of the above

12) Spatial interpolation is the observation that points close together in space are more likely to **1** point have \_\_\_\_\_ values than points far apart:

- Different
- Inverse
- Similar
- None of the above

No, the answer is incorrect. Score: 0

Accepted Answers: Similar

13)Spatial Interpolation techniques:

- Turns raw data into useful information by adding greater informative content and value
- Reveals patterns, trends, and anomalies that might otherwise be missed
- Provides a check on human intuition
- All of the above

No, the answer is incorrect. Score: 0

## Accepted Answers: All of the above

All of the above

14Functional surfaces can be used to represent:

- Terrestrial surfaces that depict the earth's surface
- Statistical surfaces that describe demographic
- Mathematical surfaces that are based on arithmetic expressions
- All of the above

No, the answer is incorrect. Score: 0

## Accepted Answers: All of the above

15)No data' is a:

Zero

https://onlinecourses.nptel.ac.in/noc18\_ce09/unit?unit=24&assessment=35

1 point

1 point

1 point

1 point

- Always equal to 1
- Value
- Nothing

# No, the answer is incorrect. Score: 0

Accepted Answers: Value

16) The assumption that makes \_\_\_\_\_\_ a viable option is that spatially distributed objects are

16) The assumption that makes \_\_\_\_\_\_ a viable option is that spatially distributed objects are **1** point spatially correlated; in other words, things that are close together tend to have similar characteristics?

- Geoprocessing
- Georeferencing
- Geocoding
- Interpolation

# No, the answer is incorrect. Score: 0

Accepted Answers: Interpolation

17)nverse Distance Weighted (IDW) interpolation method, the closer a point is to the center of **1** point the cell being estimated, the ...... influence, or weight, it has in the averaging process?

More
Equal
Similar
Less

# No, the answer is incorrect. Score: 0

Accepted Answers: More

18)DW interpolation assumes that the variable being mapped \_\_\_\_\_ in influence with distance **1** point from its sampled location.:

- Increases
- Decreases
- Remain same
- Deduces

No, the answer is incorrect. Score: 0

Accepted Answers: Decreases

19)n IDW interpolation, a barrier is a \_\_\_\_\_ dataset used as a breakline that limits the search for **1** point input sample points:

- Point
- Polygon
- Pixel
- Polyline

No, the answer is incorrect. Score: 0

Accepted Answers: Polyline

20)What reflects the presence of fault lines, cliffs, streams, and other features that create linear **1** point discontinuity in surfaces, also control how surfaces are generated?

Pixel

- Point
- Cell
- None of the above

No, the answer is incorrect. Score: 0

Accepted Answers: None of the above

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