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Courses » Digital elevation models and applications Announcements Course Ask a Question Progress Mentor Unit 4 - Week-3 **Assignment: Week 3** Course outline The due date for submitting this assignment has passed. Due on 2018-02-28, 23:59 IST. How to access Submitted assignment the portal 1) DEM represents: 1 point Week-1 Irregularly spaced sample points Week-2 A raster of rectangular cells A raster of regularly spaced sample points Week-3 Irregularly shaped polygons DEMs Derivatives-1 No, the answer is incorrect. Score: 0 DEMs Derivatives-2 **Accepted Answers:** A raster of regularly spaced sample points DEMs Derivatives-3 2) The shape of a cell of a DEM can only be: 1 point DEMs Rectangular Derivatives-4 Circular DEM Based Square Surface Hydrologic Triangle Modelling-1 No, the answer is incorrect. OQuiz : Score: 0 Assignment: Week 3 **Accepted Answers:** Square Feedback Week-3 3) Overall shape of a DEM can only be: 1 point Answer key Rectangular and square Week-4 Circular and triangular Square and circular DOWNLOAD Triangle and rectangular VIDEOS No, the answer is incorrect. Score: 0 **Accepted Answers:** Rectangular and square 4) A 512 x 512 cells DEM of 8 bits positive integer would require computer memory to store: 1 point 512 MB 1.44 MB 2.1 MB 8 MB

No, the answer is incorrect. Score: 0		
Accepted Answers: 2.1 MB		
5) An 8-bits DEM can have total r	number of positive integer cell values:	1 μ
 64 128 256 65536 		
No, the answer is incorrect.		
Score: 0 Accepted Answers: 256		
6) A DEM that shows finer details is s	aid to be of:	1 p
High resolutionCoarser resolutionModerate resolution		
Poor resolutionNo, the answer is incorrect.		
Score: 0 Accepted Answers: High resolution		
7) The DEM is NOT based on which c	of the following?	1 p
 Grid cells Discrete XY coordinate pairs Grid cells or pixels grouped to Tesselations 	form spatial entities	
No, the answer is incorrect. Score: 0		
Accepted Answers: Discrete XY coordinate pairs		
8) Which of the following is NOT a ras	ster data structure?	1 p
 Spaghetti Run-length encoding Quadtree Block encoding 		
No, the answer is incorrect. Score: 0		
Accepted Answers: Spaghetti		
9) Which of the following is advantage	e of DEMs over TINs?	1 μ
 DEMs do not require interpola DEMs do not require resamplin DEMs efficiently store data over DEMs use a simple data mode 	ng if irregularly spaced input data is used er varied terrain	
No, the answer is incorrect.		

DEMs use a simple data model

10)n which of the following problem, DEMs are not utilized?
 Visibility analysis Hydrological models
Landscape visualization
Network analysis
No, the answer is incorrect. Score: 0
Accepted Answers:
Network analysis
11DEMs generated from InSAR and LiDAR data generally have a spatial resolution between 100-150m:
True
False
No, the answer is incorrect. Score: 0
Accepted Answers:
False
12) The accuracy of a DEM created from GPS data will be low:
True
False
No, the answer is incorrect. Score: 0
Accepted Answers:
False
13DTMs can be created by digitizing from a paper map.
True
False
No, the answer is incorrect. Score: 0
Accepted Answers: True
14)A 'surface significant' point in a TIN model is one which can be closely interpolated from its neighbours.
True
False
No, the answer is incorrect. Score: 0
Accepted Answers: False
15)A DEM is a digital model andD representation of a terrain's surface?
0 1
2

16)A DEM is commonly created for a planet (including Earth), Moon, Mars or asteroid:

https://onlinecourses.nptel.ac.in/noc18_ce09/unit?unit=18&assessment=34

3

TrueFalse	
No, the answer is incorrect. Score: 0	
Accepted Answers: True	
17)Spatial resolution of a DEM is?	1 poi
 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	
18DSM is a surface which can be used to rep	present: 1 poi
 Groundwater levels Chemical qualities of soils Chemical qualities of water All of the above 	
No, the answer is incorrect.	
Score: 0 Accepted Answers: All of the above	
19DEM is an ordered array of numbers that re	represent the spatial distribution of attributes? 1 poi
 Terrain Air pollution Wavelength frequency None of the above 	
No, the answer is incorrect. Score: 0	
Accepted Answers: Terrain	
20)Which of the following is a type of DEM res Special Spatial Temporal Spectral	solution? 1 poi
No, the answer is incorrect.	
Score: 0 Accepted Answers: Spatial	
Previous Page	End



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