Tot Wo	pulzizz Worksheets odesy 2 - Quiz IV al questions: 25 rksheet time: 8mins tructor name: reda fekry	Name Class Date		
1.	is a discipline within engir direct line-of-sight communication or of	neering that focuses on designing and analyzing systems where bservation is crucial.		
	a) None of the above	b) Geodetic engineering		
	c) Communication surveying	d) LOS engineering		
2.	Triangulation stations should be choser	n on high ground so that all relevant stations are		
	a) inaccessible	b) accessible		
	c) None of the above	d) intervisible		
3.	If the distance between stations is large, the intervisibility is ascertained by knowing thebetween the stations.			
	a) azimuth	b) None of the above		
	c) horizontal distance	d) vertical angle		
4	$h=D^2/2R(1-2m),$ in this equation			
	/ ===(= ====); a.iio equatio.	,, asove occan equal mini		
	a) 0.08	b) 1.07		
	c) 1.08	d) 0.07		
5.	In the two points with known coordinates are occupied and sightings are taken to the unknown point.			
	a) satellite station	b) intersection		
	c) three-point problem	d) resection		

6.	distances Z & spatial distance S				
	a) geodetic system	b) None of the above			
	c) Horizon system	d) cartesian system			
7.	An irregular surface reflecting the Earth's gravity variations				
	a) Elliposoid	b) None of the above			
	c) spheroid	d) Geoid			
8.	What is a major factor influencing the difference between a datum and a geoid?				
	a) The presence of the atmosphere	b) The distribution of landmasses			
	c) The Earth's rotation speed	d) None of the above			
9.	. A datum is built on top of the and can incorporate local variations in				
	a) coordinate system - elevation	b) sphereoid - elevation			
	c) None of the above	d) geoid - undulation			
10.	. What is the relationship between a datum and coordinate systems?				
	a) They are the same	b) They are unrelated.			
	c) A datum defines the origin, orientation, and scale of a coordinate system.	d) A datum is a type of coordinate system.			
11.	1. Three-dimensional (3D) conformal transformations are commonly used in surveying because of				
	a) None of the above	b) preserving areas			
	c) Weather prediction	d) Shape preservation			
12.	are 3D transformations used to canother.	convert coordinates related to one geodetic datum to			
	a) Triangulation	b) Datum transformation			
	c) Intersection	d) Resection			

- 13. is the galaxy that includes the Solar System
 - a) Earth

b) Milky way

c) Jupiter

- d) None of the above
- 14. Orthometric heights differ from each other at the same level surface because:
 - a) They consider the Earth's rotation.
- b) They are measured along a straight line.
- c) The level surfaces are not perfectly flat.
- d) They are measured along the curved plumb line.
- 15. The normal height of a point P is the geometric distance between P and:
 - a) The reference ellipsoid at the same longitude
- b) A point directly below P on the reference ellipsoid

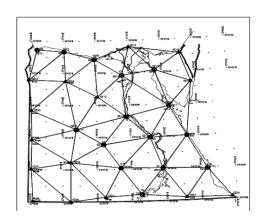
c) Geoid

- d) The point with the same potential value on the geoid
- 16. Geopotential numbers are used to calculate all of the following EXCEPT:
 - a) Orthometric heights

b) Dynamic heights

c) Normal heights

d) Undulation



17.

This figure shows the Egyptian geodetic network.

a) HARN

b) None of the above

c) Traditional

- d) Triangulation
- 18. An ellipsoid that fits the geoid very well in a certain country does not necessarily fit in other country.
 - a) False

b) True

19.	What is the preliminary assumption at the initial point of a traditional geodetic network?			
	a) Geoid and ellipsoid are tangent to each other	b) deflection of the vertical equals zero		
	c) All of the above	d) Theta = 0		
20.	The position of the datum initial point "i" (starting point of the network) to be in the geometrical center of the region of interest, and having a rigid terrain surrounded by areas of modest variations in gravity.			
	a) false	b) True		
21.	What is the primary purpose of a geodetic network?			
	a) To predict weather patterns	b) To measure distances accurately		
	c) None of the above	d) To establish a reference framework for spatial measurements		
22.	Which of the following is NOT a component of geode	etic engineering?		
	a) Weather forecasting	b) Geoid modeling		
	c) Coordinate systems	d) GPS technology		
23.	What is the significance of orthometric heights in ge	eodesy?		
	a) They represent the height above the geoid	b) They determine the rotation speed of the Earth		
	c) None of the above	d) They are used for weather prediction		
24.	Which type of transformation is commonly used in s	surveying due to its shape preservation properties?		
	a) None of the above	b) Conformal transformations		
	c) Intersection transformations	d) Resection transformations		
25.	The quantities ϕ , Λ , and H define the position of the	e observer with respect to		
	a) None of the above	b) the spheroid & the mean rotational axis of the earth		
	c) the geoid & the ellipsoid normal	d) the geoid & the mean rotational axis of the ear		

Answer Keys

- 1. d) LOS engineering 2. d) intervisible 3. c) horizontal distance
- 4. a) 0.08 5. b) intersection 6. c) Horizon system
- 7. d) Geoid 8. b) The distribution of 9. b) sphereoid elevation landmasses
- 10. c) A datum defines the 11. d) Shape preservation 12. b) Datum transformation origin, orientation, and
- system.

 13. b) Milky way

 14. d) They are measured along

 15. b) A point directly below P on
 - the curved plumb line. the reference ellipsoid
- 16. d) Undulation 17. a) HARN 18. b) True
- 19. c) All of the above 20. b) True 21. d) To establish a reference framework for spatial measurements
- 22. a) Weather forecasting 23. a) They represent the height 24. b) Conformal above the geoid transformations
- 25. d) the geoid & the mean rotational axis of the earth

scale of a coordinate

5/19/24, 4:29 PM	Geodesy 2 - Quiz IV Quizizz	Geodesy 2 - Quiz IV Quizizz	