Geo Tot Wo Inst	Dedesy 2 - Quiz I al questions: 20 rksheet time: 11mins tructor name: reda fekry	Name   Class   Date			
1.	is a discipline within engineering that focuses on designing and analyzing systems where direct line-of-sight communication or observation is crucial.				
	a) Geodetic surveying	b) None of the above			
	c) Communication surveying	d) LOS engineering			
2.	. Triangulation stations should be chosen on high ground so that all relevant stations are				
	a) accessible	b) None of the above			
	c) intervisible	d) inaccessible			
3.	If the distance between stations is large, the intervisibility is ascertained by knowing the between the stations.				
	a) horizontal distance	b) None of the above			
	c) azimuth	d) vertical angle			
4.	$h=D^2/2R(1-2m)$ m is				
	a) height of station above datum	b) None of the above			
	c) coefficient of refraction	d) vertical distance			
5.	The line of sight should be taken at least 3 m above the point of tangency T of the earth's surface to avoid				
	a) intervening ground	b) grazing rays			
	c) obstructions	d) none of the above			

- 6. In ...... the two points with known coordinates are occupied and sightings are taken to the unknown point.
  - a) resection
  - c) intersection

- b) satellite station
- d) three-point problem
- 7. In ..... the one point with unknown coordinates is occupied and sightings are taken to the known points.
  - a) radiation
  - c) Resection

- b) None of the above
- d) intersection



Figure shows ..... problem.

Ans.

- 9. ..... is a mathematical framework used to determine the positions of points in space or on a surface.
  - a) Coordinates
  - c) Origin

- b) None of the above
- d) A coordinate system
- - a) direction of gravity
  - c) normal direction

- b) ellipsoidal height
- d) All of the above

5/18/24, 4:33 PM		PM	Geodesy 2 - Quiz I   Quizizz	
	11.	The quantities $\Phi$ , $\Lambda$ , and <i>H</i> define the position of the observer with respect to the		
		a) ellipsoid	b) None of the above	
		c) WGS1984	d) geoid & the mean rotational axis of the earth.	
12. The geod to the el		The geodetic coordinates are determined from to the ellipsoid.	observed on the earth's surface, reduced	
		a) Triangulation or Trilateration	b) Astronomic observations reduced to ellipsoid	
		c) a and b	d) MSL	
13. Ideally the origin of the rectangular coordinates system should be at the e system is known as			system should be at the earth's center of gravity; the	
		a) Geodetic Coordinate System	b) Average Terrestrial Coordinate System	
		c) Horizon system	d) None of the above	
14. When the origin of the rectangular coordinates systemis known as		When the origin of the rectangular coordinates sy known as	systemis NOT the earth's center of gravity; the system is	
		a) All of the above	b) ECEF	
		c) Geodetic Coordinate System	d) Average Terrestrial Coordinate System	
15. In this system the coordinates U, V, W are expressed as functions of the o distances Z & spatial distance S		In this system the coordinates U, V, W are expres distances Z & spatial distance S	ssed as functions of the observed azimuth A, zenith	
		a) cartesian system	b) None of the above	
		c) Horizon system	d) geodetic system	
16. What does a coordinate system provide a framework for?			work for?	
		a) None of the above	b) Describing the shape of objects	
		c) Mathematical calculations	d) Determining the texture of objects	

17.	ELLIPSOIDAL NORMAL H H K EQUIPOTENTIAL SURFACE TERRAIN N ELLIPSOID		
	a) normal gravity	b) None of the above	
	c) incidence angle	d) deflection of the vertical	
18.	lt is measured along the curved plumb line and obta a) undulation c) Normal height	ined from spirit levelling and gravity observations. b) orthometric height d) geodetic height	
19.	<ul><li>19. is the height of the observer above the reference ellipsoid, measured along the ellipsoidal norr</li><li>a) all of the above</li><li>b) orthometric height</li></ul>		
	c) Ellipsoidal height	d) geiodal undulation	
20.	Relation between Astronomic and Geodetic Coordinates is characterized by		
	a) C.G of ellipsoid	b) None of the above	
	c) normal gravity	d) deflection of the vertical	

## **Answer Keys**

1. d) LOS engineering	2. c) intervisible	3. a) horizontal distance
4. c) coefficient of refraction	5. b) grazing rays	6. c) intersection
7. c) Resection	8. resection	9. d) A coordinate system
10. a) direction of gravity	11. d) geoid & the mean rotational axis of the earth.	12. c) a and b
13. b) Average Terrestrial Coordinate System	14. c) Geodetic Coordinate System	15. c) Horizon system
16. c) Mathematical calculations	17. d) deflection of the vertical	18. b) orthometric height
19. c) Ellipsoidal height	20. d) deflection of the vertical	