Mid Semester Examination - Oct 2018 LONERE

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,

Subject Name:Surveying-II Course: S.Y. B. Tech in Civil Engg (I) Date: 12-3-19 Subject Code: CV402 **Duration:- 1** Sem: III Max Marks: 20

Instructions to the Students: 2.Assume suitable data wherever necessary 1. Figures to the right indicate Full marks

1. The point on the celestial sphere vertically below the observer's position is called.	
CO3	(Teven/CO)
Ω	 Pever

	•	-
a) Nadir h) Dole c) Zenith d) Celestial point.	1. The point on the celestial sphere vertically below the observer s position is called.	
		CO3
		. U

		4
2. While making astronomical observations, the observer is mainly concerned with	a) Nadir. b) Pole c) Zenith d) Celestial point.	position is called.
CO3		
Ω		

a) All b) The directions of the poles of the celestial sphere

a) Side of a triangle b) Sum of included angles c) R.L of B.M d)	vertical axis of instrument. 3. Which of the following is an independent quantity
- -	C01
•	C2

formed, is known as	the coefficient of its un-knowns and by adding the equations mus	4. The equation which is obtained by multiplying each equation by	
			CO1
			ß

Observation equation.	a) None of these b) Normal equation) Conditional equation of
	equation a)

CO1

Ω

a)Geodetic triangulation of greatest possible sides and accuracy is

Mar



carried
20

less accuracy b) Primary triangles are broken down into secondary triangles of

c) All

d) Secondary triangles are further broken into third and fourth order triangles, the points of which are used for detail survey.

6.A total station is a combination of:

CO5

S

a) EDM and Theodolite b) Compass and EDM c) Electronic

theodolite and EDM d) EDM and electronic compass.

www.FirstRanker.com Solve Any Two of the following

base line measurement?

What are the different corrections that may have to be applied to

B Give the classification of a triangulation system What are the applications of field astronomy

> CO3CO1

C

C1

0 Solve Any One of the following.

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followi		Determ	۵	۳	Р	Inst. Heig Station Axis	with ana	The foll	Solve A
ng observati	ne most pro	ine the dista	1.57	1.45	1.45	Height of Axis	llatic lens, tl	owing obser	ay One of th
following observations at station 'O'	Find the most probable values of the angles A and B from the	Determine the distances PQ and QR, and the KLS of F, Q and X.	R	Q	ВМ	Staff station Vertical Angle	with anallatic lens, the staff being held vertically.	(A) The following observations were taken using a tacheometer fitted	a). 3 Solve Any One of the following.
, O	of the angles	R, and the K	12021	705'	-6°12′	Vertical Angle	held vertically	taken using a	
, • !	A an	LS OI F	1.89	0.83	0.98	Hair	,	1 tache	
	d B fron	, Cana	1.89 2.48			6.0		ometer fi	
	1 the		3.0/	1.89	2.10			tted	
		<u>,</u>					e e e e e e e	. CO2	
	. (3						£	3

*** End ***

 $B = 54^{\circ}37'48.3''$

 $A+B = 104^{\circ}26'28.5''$

 $A = 49^{\circ}48'36.6'$

Weight=2

Weight=3

Weight=4

CO1

 Ω