Reg. No. :	
Question Paper Code: 93106	
B.E. / B.Tech. DEGREE EXAMINATION, DEC	2 2020
Third Semester	
Civil Engineering	
19UCE306-SURVEYING	
(Regulation 2019)	
	Maximum: 30Marks
PART A - $(6 \times 1 = 6 \text{ Marks})$	
(Answer any six of the following questions	S)
tioned triangle, no angle should be less than	CO1-

1.	For a well-conditioned triangle, no angle should be less than				CO1- R	
2.	(a) 20°A metallic tape is mad	(b) 30° e of	(c) 45°	(d) 60°	CO1- R	
3.	(a) Steel What is the least count	(b) Invar t of Theodolite?	(c) Linen	(d) Cloth and wires	CO2-R	
	(a) 20'	(b) 20"	(c) 30"	(d)1°		
4.	To observe an includ reading the verniers of (a) Repetition.	ed angle with better a theodolite, the meth	accuracy then what is nod preferred is (b) Reiteration.	achieved by	CO2-R	
	(c) Double observation	1.	(d) Any of the above			
5.	. Determine the eccentric station point if the station is $1.65m$ to the west and the CO3- distance between remaining two station points is given as 300m, with an angle of $10^{\circ}12'$.					
	(a) 200°35'	(b) 2°53'	(c) 202°53'	(d) 200°53'		
6.	Length of base line in		CO3- R			
	(a) 1.5 – 5 km	(b) 0.5 – 10 km	(c) 0.5 – 3 km	(d) 5 – 15 km		
7.	In total station, data is stored in CO				CO4- U	
	(a) Pen drive	(b) Microprocessor	(c) Data card	(d) External hard of	lisk	
8.	The formula for different	ence in elevation can	be given as		CO4- U	
	(a) $D = V + (I-R)$	(b) $D = V + (I+R)$	(c) $D = V - (I-R)$	(d) $D = V * (I-R)$		

Duration: One hour

9.	. How many location photographs are required (at least) for photogrammetry?				CO5 -R			
	(a) 1	(b) 2	(c) 3	(d) 4				
10.	10. What is the fundamental principle of photogrammetry?							
	(a) Interference (b) Resection principle (c) Triangulation (d) Intersec				nciple			
PART – B (3 x 8= 24 Marks)								
(Answer any three of the following questions)								
11.	. Explain briefly about the different types of level with neat sketches. CO1- Ana (8) Correlate the different types of level instrument with their advantages.							
12.	Explain detailed Justify the suitab	about the methods of the method for highway aligned	traversing with neat sk gnment.	etch and CO2-An	a (8)			

- Elaborate the purpose of route surveying and explain about the elements of CO3- Ana (8) a simple circular curve.
- 14. Summarizing the different sources of errors in total station surveying. CO4- E (8)
- 15. Convince your client to go with remote sensing instead of traditional CO5-C (8) method with latest application.