		Reg. No.:										
		Question Paper	Cod	Δ• /	131(16]					
	Question Paper Code: 43106											
B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020												
Third Semester												
Civil Engineering												
14UCE306 - SURVEYING - I												
		(Regulation	on 20	14)								
Duration: One hour						Maximum: 30 Marks						
		PART A - (6 x	$1 = \epsilon$	5 Ma	arks)							
		(Answer any six of the	follo	owin	ıg qu	esti	ons)					
1.	The Gunter or Surve	eyor's Chain is										
	(a) 100 ft	(b) 33 ft		(c)	66 fi	t			((d) 10) m	
2. In chain surveying, tie lines are primarily provided												
	(a) to check the accuracy of the survey(c) to avoid long offsets from chain lines			(b) to take offsets for detail survey(d) to increase the number of chain								
3.	Radiation, intersection, traversing and resection are the four methods of											
	(a) Compass su	ırveying	(b)	Pla	ne ta	ıble s	surve	ying	T			
	(c) Chain surve	eying	(d)	Co	mpa	ss tra	vers	ing				
4.	The bearing of a line measured in the direction of the progress of the survey is called									1		
	(a) Back bearing	g	(b)	Wh	ole (Circle	e bea	ring				
	(c) Fore bearing	(d)) Quadrantal bearing									
5.	The last reading taken before shifting the instrument to a new station is said to be											
	(a) Back sight			(b)	Fore	e sigl	ht					
	(c) Intermediate	sight		(d)	Cha	nge	point	t				

6.	For true difference in elevations between two points A and B, the level must be set up						
	(a) Near the point B(c) At the exact midpoint of A and B	(b) Near the point A	-				
7.							
	(a) Permanent bench mark(c) Temporary bench mark	(b) GTS bench mark(d) Arbitrary bench mark					
8. The total volume of excavation multiplied by average haul distance is said to be							
	(a) Mass haul(c) Haul	(b) Free haul(d) Over haul					
9.	9. The diaphragm of a stadia theodolite is fitted with two additional						
	(a) horizontal hairs(c) horizontal and two vertical hairs	(b) vertical hairs(d) none of these					
10. One of the tacheometric constants is additive, the other constant, is							
	(a) Subtractive constant(c) Multiplying constant	(b) Dividing constant(d) Indicative constant					
	PART – B (3 x 8=	24 Marks)					
	(Answer any three of the f	ollowing questions)					
11.	What is meant by ranging a line? Explain th method.	e procedure of ranging a line by i	in direct (8)				
12.	The following fore-bearings and back-bearings were observed while traversing with						
	compass. Calculate the interior angles and cor	rect for observational errors.	(8)				
13.	Determine the corrections due to (a) curvature and (b) refraction if the length of sight (i) 1200m and (ii) 1800m.						
14.	4. Write about the characteristics of contours and their uses.						
15	What are the possible sources of errors while using a theodolite?						