CMR INSTITUTE OF TECHNOLOGY	USN 1 C R	CV	CMR	INSTITUTE OF TECHNOLOGY		
	Internal Assesment Test -	-1				
Sub:Advanced Surveying				de: 15CV46		
Date:14/03/2018 Duration: 90 mins Max Marks: 50 Sem: IV Sections:CV (A & B)						
Answer any five questions. Good luck!						
		Marks	OBE			
				RBT		
Explain the Rankines method of deflection angles for setting out a simple circular curve.				L1,L2		
2 Two tangents intersect at a chair	10 1,4	L1,L2				
required to connect the two tangents by a curve of radius 15 chains. Taking the peg interval						
as 100 links, calculate the necessary data for setting out the curve by offset from chords						
produced method. Take length of the chain as 20m (100 links).						
3 Draw a neat sketch of compound curve giving the various elements. Also explain the				L1		
method of setting out the compound curve.						
4. Explain with neat sketches, the various triangulation systems.			10 1,4	L1		

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			1111111	CO	RBT	
Explain the Rankines method of deflection angles for setting out a simple circular curve.			10	1,4	L1,L2	
				10	1 4	1110
2 Two tangents intersect at a chainage of 59+60, the deflection angle being 50°30'. It is					1,4	L1,L2
required to connect the two tangents by a curve of radius 15 chains. Taking the peg interval						
as 100 links, calculate the necessary data for setting out the curve by offset from chords						
produced method. Take length of the chain as 20m (100 links).					1 4	T 4
3 Draw a neat sketch of compound curve giving the various elements. Also explain the				10	1,4	L1
method of setting out the compound curve. 4. Explain with neat sketches, the various triangulation systems.						
				10	1,4	L1

	Mark	OE	BE
	1/10111	CO	RBT
5 Calculate the ordinates at 10 m distance for a circular curve having long chord of 80	0 m and 10	1,4	L1,L2
a versed sine of 4 m.			
6 A compound curve consists of two simple circular curves of radii 350m and 500m a	and is to 10	1,4	L1,L2
be laid out between two straights T_1I and IT_2 . PQ is the common tangent at the	point of		
compound curvature D. The angles IPQ and IQP are 55°00' and 25°00' respectively.	. Sketch		
and calculate the distances of the tangent points T_1I and IT_2 .			
7. Explain Satellite station and reduction to centre.	10	1,4	L1

C.I. C.C.I. H.O.D.

Ī		Ma	arks	OBE	
l				CO	RBT
ĺ	5 Calculate the ordinates at 10 m distance for a circular curve having long chord of 80 r	n and 1	10	1,4	L1,L2
l	a versed sine of 4 m.				
Ī	6 A compound curve consists of two simple circular curves of radii 350m and 500m and	l is to	10	1,4	L1,L2
	be laid out between two straights T ₁ I and IT ₂ . PQ is the common tangent at the po	int of			
	compound curvature D. The angles IPQ and IQP are 55°00' and 25°00' respectively. S	ketch			
	and calculate the distances of the tangent points T_1I and IT_2 .				
Ī	7. Explain Satellite station and reduction to centre.	1	10	1,4	L1

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