| CMR INSTITUTE OF TECHNOLOGY | | USN | 1 | C | R | | | C | V | | | | CMR INSTITUTE OF TECHNOLOGY |

Internal Assesment Test –3

| Sub:Advanced Surveying | Code: 15CV46 |

| Date:19/05/2018 | Duration: 90 mins | Max Marks: 50 | Sem: IV | Sections:CV (A & B) |

Answer *any five* questions. Good luck!

		Marks	OBE	
			CO	RBT
1	Explain the Rankines method of deflection angles for setting out a simple circular curve.	10	1,4	L1,L2
2	Two tangents intersect at a chainage of 59+60, the deflection angle being 50°30'. It is 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).	10	1,4	L1,L2
3	Draw a neat sketch of compound curve giving the various elements. Also explain the method of setting out the compound curve.	10	1,4	L1
4.	Explain with neat sketches, the various triangulation systems.	10	1,4	L1

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		Marks	OBE	
			CO	RBT
5	Briefly explain the rules to be followed in drawing the diagrams of a heavenly body in altitude and azimuth system.	10	1,4	L1,L2
6.	Find the shortest distance between two places K and L given that the latitude of K and L are 12°00' N and 13°04' N respectively and their longitudes are 72°30' E and 80°12' E respectively.	10	1,4	L1,L2
7.	A line AB 2000m long, lying at an elevation of 500m measures 8.65cm on a vertical photograph whose focal length of the camera is 20cm. Determine the scale of the photograph in an area the average elevation of which is 800m.	10	1,4	L1

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