


CMR INSTITUTE OF TECHNOLOGY		USN								1	C	R			C	V			
Internal Assessment Test –2																			
Sub:Advanced Surveying															Code: 18CV45				
Date:24/06/2021			Duration: 90 mins			Max Marks: 50			Sem: IV			Sections:CV (A)							
Answer <i>any five</i> questions. Good luck!																			
																Marks	OBE		
																	CO	RBT	
1.	What is LIDAR? Explain the working function of LIDAR technology.															10	2, 3	L1,L2	
2.	Define the terms: (i) Exposure Station (ii) Swing (iii) Principal Point (iv) Perspective Projection (v) Focal length.															10	2, 3	L1,L2	
3.	Derive the expression for the scale of a vertical photograph.															10	2, 3	L2	
4.	A vertical photograph was taken at an altitude of 1200m above the MSL. Determine the scale of the photograph for a terrain lying at elevations of 80m and 300m if the focal length of the camera lens is 150mm.															10	2, 3	L3	
5.	Define remote Sensing. What are the requirements of an ideal remote sensing system?															10	2, 3	L1,L2	
6.	A line AB 2Km long, lying at an elevation of 0.5Km measures 8.65 cm on a vertical photograph whose focal length is 0.2m. Determine the scale of the photograph in an area where the average elevation is 800m.															10	2, 3	L3	
7.	Define Geographic information system. Explain the components of GIS. Also write the applications (uses) of GIS.															10	2, 3	L1,L2	

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