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A Code	No: 153BV R18 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABA		
B.Tech II Year I Semester Examinations, October - 2020 SURVEYING AND GEOMATICS (Civil Engineering)			
Time:	2 hours Max. Marks:	Max. Marks: 75	
AG	Answer any five questions All questions carry equal marks	AG	
1.	Explain the principles of surveying with neat sketches and explain the situa which surveys are convenient?	tions for [15]	
2. AG	Observed bearings of a close traverse are given below, find correct bearings by local attraction affected stations.  Line FB BB  AB 36 0 216 45'  BC 98 0 15' 276 0	y finding [15]	
△ (3.a) b)	CD 201 ° 45' 203 ° 15' DA 322 ° 45' 142 ° 45'  List the various difficulties in Leveling, Explain Differential Leveling and Precise Leveling, what are their advantages?	[15] Overlain	
4.	Explain the different indirect methods of the location of contours and interpolation by arithmetical method?	[15]	
Д <b>.</b>	Show what errors are eliminated by the repetition method. How will you horizontal angle by the method of repetition?		
6.	A theodolite was set up at a distance of 200 m from a tower. The angle of elevation to the parapet was 8° 18′ while the angle of depression to the foot of the 2° 24′. The staff reading on the B.M. having R.L 248.362 with the telescope was 1.286 m. Find the height of the tower and the R.L. of the top of the parapet?	wall was horizontal	
A 3.	Explain briefly the salient features of the total station  Explain the various applications of photogrammetry.	[15]	
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