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Roll N	0.	Total No. of Pages: 02 Total No. of Questions: 09
	B.Tech.(CE) (Sem3 rd)	Total No. of Questions. 09
	SURVEYING	
	Subject Code: BTCE-304	
	Paper ID: [A1116]	
Time:	3 Hrs.	Max. Marks:60
1. 2.	Attempt any four questions from Section-B.	
1.	Section –A is Compulsory.	
1. 2.	Section –A is Compulsory. Attempt any four questions from Section-B.	
1. 2.	Section –A is Compulsory. Attempt any four questions from Section-B. Attempt any two questions from Section-C.	(10x2=20)

- a) Enumerate the various methods of chaining.
- b) What are the different types of chains?
- c) What are the temporary adjustment of a level?
- d) What are the different methods of contouring?
- e) What are the different methods of leveling?
- f) What is reconnaissance? List various methods of reconnaissance.
- g) Distinguish between local attraction and declination.
- h) What are the sources of error in leveling?
- i) Distinguish between a true bearing and magnetic bearing.
- j) Explain the elements of a curve.

SECTION - B

(4x5=20)

- Q2. A 30 m chain was found to be 0.20 m too long after chaining 1500m, it was found to be 0.15 m too long after chaining 2500 m. If the chain was correct before the commencement of work, find the true distance.
- Q3. Describe the various methods of plane tabling. Under what conditions each is preferred.
- Q4. What do you understand by balancing the traverse. Describe any three methods of adjusting the traverse.
- Q5. Explain the three-point problem along with a suitable example.
- Q6. Explain the method of determination of tacheometric constants of a techeometer.

SECTION – C

(2x10=20)

- Q7. A staff was held vertically at horizontal distance of 45m and 120 m from the centre of a theodolite fitted with stadia hairs and the staff intercepts with the telescope horizontal were 0.447 and 1.93 resp. The instruments was then set over a station P of RL 300.25 and the height of instrument was 1.45 m. The hair readings on the staff held vertically at a station were 1.20,1.93 and 2.66 m while the vertical angle was 9°30. Find the distance PQ and RL of Q.
- Q8. Write short note on
 - (i) Obstacle in chaining
 - (ii) Bowditch's Rule
- Q9. Define the degree of a curve and derive the expression for it.

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