

SECTION-B

2. Explain Levelling with the three Screw Levelling head.
3. A 30m chain used to measure the length of a line was tested before the line was measured and was found to be 29.95m long. The line was measured and the length was recorded as 590.48m. The chain was tested again and was found to be 30.08m long. Find the true length of the line.
4. Draw a curve and describe minimum 10 elements in it.
5. What are the various corrections that can be applied in Base Line measurement?
6. What do you mean by Designation of Curve? Explain its various different methods.

SECTION-C

7. A tacheometer was set up at station P and observations were made to a staff held normal to the line of sight over point Q. The vertical angle measured was $6^{\circ}36'$. The three hair readings were 1.905, 2.480 and 3.055. The reading from P, with the line of sight horizontal to a BM of RL 852.55 was 1.855. If the instrument constants are 100 and 0.5, find the RL of Q.
8.
 - a) Explain direct methods of locating contours.
 - b) Describe various methods of interpolating the contours.
9.
 - a) The following bearings were observed with a compass. Calculate the interior angles :

Line	Fore Bearing
AB	$60^{\circ}30'$
BC	$122^{\circ}3'$
CD	$46^{\circ}0'$
DE	$205^{\circ}30'$
EA	$300^{\circ}0'$

- b) Explain various methods to eliminate the effects of local attraction.

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