

Program: Regular/Back Exam-2076, Falgun/Chaitra  
Year/Part: Diploma in Civil Engineering  
Subject: IIM (2013)  
Surveying -III

Full Marks: 80  
Pass Marks: 32  
Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt Any Five questions.

- 1 a) Define trigonometric leveling. Also derive an expression for determination of horizontal distance & elevation of distant object where the instrument axes are at different levels & the base of object is inaccessible. [2+6]
- b) 8m tall tower is sighted from two station O1 & O2 which separated at 120m distance on ground. These two stations & tower all lie in the same plane. If the angle of elevation made at the top of the tower T from stations O1 & O2 were  $30^{\circ}30'$  and  $20^{\circ}20'$  respectively. Determine the reduced level of Base of the tower. (Staff readings upon Benchmark of 100m were 2.755 and 3.655, when instrument was at station O1 & O2 respectively). [5]
- 2.a) Derive the Distance and Elevation formula for tachometry when the staff held vertically on the ground. Also Define Anallactic lens. [7+1]
- b) A tachometer was set up at station O & sighted to the staff station M & N, the following readings were recorded. [3]

Inst. station	Staff Station	R.B.	Vertical angles	Stadia readings		
O	M	N $40^{\circ}$ E	+ $8^{\circ}40'$	1.301	1.353	1.405
	N	N $20^{\circ}$ W	+ $5^{\circ}20'$	1.405	1.505	1.605

Compute the gradient of MN. Take  $K=100$   $C=0$

- 3.a) Derive an expression to set simple circular curve by taking perpendicular offsets from tangents. [5]
- b) Along the alignment of a road, it is found in a particular portion that a grade of +0.5% is followed by one of -0.7%. The two ends are to be connected by parabolic vertical curve. The chainage & R.L. of intersection point are 500m and 375.5m respectively. Calculate R.L. of points on curve at 20m peg interval taking rate of change of grade 0.1% per 20m. Tabulate the results. [4+6]

Contd.

# Diploma Civil Survey Question Paper

**Jiyuan Zhang**



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