15. (a) Determine the gradient from a point A to point B from the following observations made with a tachometer fitted with an analytic lens. The constant of the instrument was 100, Zero and the staff was held vertically.

Inst. station	Staff station	Bearing	Vertical angle	Staff Reading
P	A	134°	+10° 32'	1.360, 1.915, 2.470
	В	224°	+5° 6'	1.065, 1.885, 2.705

OR

(b) A tachom ter was setup at a station C and the following readings were obtained on a staff was held vertically. K=100 and C=0.15.

Inst. Station	Staff station	Vertical angle	Staff Reading
С	BM	-5° 20'	1.150, 1.800, 2.450
C	D	+8° 12'	0.750, 1.500, 2.250

RL of BM 750.500. Calculate the horizontal distance CD and RL of D.

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Question Paper Code: 57147

2/6/16

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Third Semester
Civil Engineering
CE 6304 – SURVEYING – I
(Regulations 2013)

Time: Three Hours

Iaximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

- I. What is the Well conditioned triangles ?
- 2. List out the types of obstacles in chaining.
- 3. What is meant by local attraction?
- 4. Define Isogonic line and Agonic line.
- 5. Explain the temporary adjustment of a dumpy level.
- 6. What is meant by Benchmark? What are different types of Benchmarks?
- Write a formula for correction for curvature and refraction.
- 8. Define. : (i) Overhanging cliff (ii) Vertical cliff
- 9. What is meant by substance bar ?
- 10. What are the different systems of tachometer survey?

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