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Second Semester B.Arch. Degree Examination, June/July 2015 Surveying and Leveling

Tin	e: 3 hrs. Max. Marks:	100
	Note: 1. Answer any FIVE full questions. 2. Assume missing data suitably.	
1	 b. Explain in detail the classification of surveying. c. A 20 mts chain was found to be 4cms too long after chaining 1400 mts. It was 8 cm long at the end of day's work after chaining a total distance of 2420 mts. If chair 	
2	b. What are errors encountered in chain surveying? (06 N	larks) larks) larks)
3	 Explain the following corrections applied to the tape in Base line measurement: i) Correction to absolute length ii) Correction to temperatures iii) Correction Pull or Tension iv) Correction for sag. 	larks) ion to larks) larks)
4		each Iarks) Iarks)
5		larks) larks)
6	1 70 1 77 1100 1 1 1 20 20 21 21 22 22 22	larks) larks) `on a

0.755, 1.545, 2.335, 3.345, <u>3.655</u>, 0.525, 1.275, 2.630, 2.895, <u>3.565</u>, 0.345, 1.5250, 1.850, 2.675, 3.775. 1st Reading was taken on BM of RL 200.000 mts.

Rule out a page of level book and enter the readings. Calculate the RL of stations by line of collination method. Apply Normal check. (10 Marks)

- 7 a. Explain how the horizontal angles are measured in the theodelite by
 - i) Method of Repitition ii) Method of Reiteration. (14 Marks)
 - b. What are the characteristics of contour?

- 8 Write short notes on any four of the following:
 - a. Principles adopted in surveying.
 - b. Shrunk Scale & its importance.
 - c. Three point problem & its application in surveying.
 - d. Different types of chains used in chaining process.
 - e. With neat sketch, explain optical squares.
 - Direct and indirect method of countering.

(20 Marks)

(06 Marks)