

09ENG2.6

## Second Semester B.Arch. Degree Examination, Dec.2015/Jan.2016 Surveying and Levelling

T	ime	3 hrs.
		Note: Answer any FIVE full questions.  Max. Marks: 100
1	a. b.	Define surveying. What are the objects of surveying?
2	a.	What do you understand by ranging? Explain the method of ranging when the end stations are not intervisible.
	b.	
3	a. b.	Explain with a sketch the method of intersection in plane tabling.  Define plane table survey. List and explain the accessories in plane tabling.  (10 Marks)
4	a. b.	Explain the temporary adjustments of a plane table.  Define the terms:  i) Bench mark  ii) Line of collimation  iii) Back sight  iv) Foresight  v) Elevation
5	a. b.	Explain the temporary adjustments of a Dumpy level.  The following consecutive readings were taken on a continuously sloping ground at 30 m interval using a dumpy level and a 4m levelling staff. The RL of starting point was 100.000 enter the readings in level book format. Compute the elevations by HI method. Apply check.
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a. With a neat sketch explain the parts of a transit theodolite.

- b. Explain the method of measuring the horizontal angle by repetition method. Also draw the standard tabular column for writing down the readings. (10 Marks)
- Define a contour. Explain the characteristics of contours. Explain with sketches the use of contour maps.

(10 Marks)

(10 Marks)

- Write short notes on:
  - Shrunk scale
  - b. Resection in plane table survey
  - Advantages and disadvantages of plane tabling
  - Dumpy level

(20 Marks)

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