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USN		14ENG2.

Second Semester B.Arch. Degree Examination, Dec.2017/Jan.2018			
	Site Surveying and Analysis		
Tir	may 3 hrs		
Time: 3 hrs. Marks:100			
Note: 1. Answer any FIVE full questions selecting ONE question from each module.			
2. Answer all questions on drawing sheets only.			
	MODULE - 1		
1	a. What is Surveying? Discuss with sketches the fundamental principles of surveying. (10 Marks)		
	b. Explain the classification of Surveying. (10 Marks)		
2	a. Explain the following terms, i) Survey station ii) Base line iii) Tie line iv) Check		
	line v) Oblique offset. (10 Marks)		
	b. The area of a land of an old survey plotted to a scale of 1.100 now measures 100.5cm ² . The		
	plan has shrunk so that a line originally 10cm long now measures 9.5cms. Find the true area		
	of the land. (10 Marks)		
	MODULE 2		
3	a. Explain different methods to erect a perpendicular to a chain line from a point on it.		
	b. What are the different accessories used in plane table surveying? (10 Marks)		
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4	a. Explain the following terms in levelling i) Datum surface ii) Line of Collimation iii) Bench Mark iv) Elevation v) Foresight. (10 Marks)		
	b. The following staff readings were recorded in a leveling operation: (10 Marks)		
	1.185, 2.604, 1.925, 2.305, 1.155, 0.864, 1.105, 685, 1.215, 1.545, 0.605. Station		
	A is BM of RL 185.685m. Find RL's of all the points by rise and fall method only. The first		
	reading was to point A and the instrument was shifted after the reading 2.604, 0.864 and		
	1.215. (10 Marks)		
	MODULE - 3		
5	a. What is Contour Interval? What are the factors to be considered while selecting contour		
	interval? (10 Marks)		
	b. Explain with sketches, characteristic of Contours. List the uses of Contour map. (10 Marks)		
	OR		
6	a. What are Contemporary survey instruments used? Briefly write down salient features.		
	b Explain the water of a fraggrament of a havigantal angle by repatitions (10 Marks)		
	b. Explain the method of measurement of a horizontal angle by repetitions. (10 Marks)		
	MODULE - 4		
7	How do you survey a land of 1 acre without using instruments? (20 Marks)		
	OR		
8	What are the factors to be considered during the analysis of a site (upto 1 acre)? Explain each		
	factor in detail. (20 Marks)		
	MODULE - 5		

Briefly explain the factors considered while reading a land survey drawings. 9 (20 Marks)

Briefly write down the procedure involved during setting out center lines for a residential 10 buildings. Give example. (20 Marks)