Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

CBCS SCHEME

USN			15ENG2.7	
	Second Semester B.Arch. Degree Examination, Dec.2018/Jan.2019			
		Site Surveying and Analysis		
Tim	e:	3 hrs.	k. Marks: 100	
	No	ote: Answer any FIVE full questions, choosing ONE full question from eac	h module.	
		Module-1		
1	a. b. c.	What are the applications of surveying? Explain principles of surveying.	(08 Marks) (06 Marks) (06 Marks)	
2	a. b. c.	OR Explain method of stepping on sloping ground. Write a note on obstacles in chain surveying. A 20m chain was found to be 15cm too long after chaining a distance of found to be 20cm too long at the end of days work after chaining a total distance if the chain was correct before starting of work.	(05 Marks) (06 Marks) 1500m. It was ance of 3200m. (09 Marks)	
3	a. b. c.	Explain survey lines with sketches. Explain the types of cross-staff used in chain surveying. Write advantages and disadvantages of plane table surveying.	(06 Marks) (06 Marks) (08 Marks)	
4	a. b.	Define the following: i) Bench mark ii) Back sight iii) Fore sight iv) Elevation. Following readings were taken with a level. First reading was taken on a Bl Calculate the RL of all the stations and apply check. 0.755, 1.545, 2.335 0.525, 1.275, 2.630, 2.895, 3.565, 0.345, 1.525, 1.850, 2.675, 3.775. The shifted after 6 th and 10 th readings.	, 3.345, 3.655,	
5	a. b.	Module-3 Define contour. Explain characteristics of contour. With sketches explain uses of contours.	(12 Marks) (08 Marks)	
6	a. b. c.	OR Explain temporary adjustments of a theodolite. Explain method of reiteration used to measure horizontal angle. List uses of total station.	(07 Marks) (07 Marks) (06 Marks)	

Module-4

a. Explain method of pacing. (05 Marks)

b. Explain aerial and terrestrial photogrammetry. (10 Marks)
c. Write a short note on the basic observation to be made in the site before starting of work.
(05 Marks)

OR

8 Explain the analysis of following site factors: i) Topography ii) Soil iii) Hydrology iv) Land forms v) Climate. (20 Marks)

- Explain different types of survey maps. (10 Marks) Write a note on grid references. b. (05 Marks) Write any 5 symbols used in survey maps with explanation.
 - (05 Marks)

- 10 Draw a simple centre line of a building and explain how the centre line is drawn in field. (10 Marks)
 - Explain the following:
 - i) Boning rods and traveler
 - Sight rails ii)
 - iii) Profile boards
 - iv) Slope rails a batter boards.

(10 Marks)

