	Т	ime:	3 hrs.
	1	mic.	Note: Answer any FIVE full questions.
olank pages. 50, will be treated as malpractice.	1	a. b.	explain principles of surveying
	2	a. b.	Explain ranging and different types of ranging. A 20m chain was found to be 10 cm long after chaining a distance be 18 cm too long at the end of day's work after chaining a total di true distance if the chain was correct before the commencement of
blank = 50, w	3	a.	Explain the methods of erecting perpendicular to a chainline from a
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 in the second seco		b.	In passing an obstacle in the form of a pond stations A and C, on the the opposite sides of the pond. On the left of AD, a line AB, 200m second line AC, 250m long, was ranged on the right of AD. The the same straight line. BD and DC were then chained and found respectively. Find the length AD.
	4	a. b.	What are the accessories required for plane table surveying? List the methods of plane table survey and explain any one method
	5	a. b.	Define: Levelling, Datum, Elevation, Mean sea level and Bench matches The following consecutive readings were taken with a level and continuously sloping ground at a common interval of 20 m 0.3 3.730, 4.685, 0.625, 2.005, 3.110, 4.485. The reduced level of the function of the above readings in a page of a level book and calculate the and fall method. Also the gradient of the line joining the first and the
	6	a. b.	Define the terms: Horizontal axis (ii) Transiting (iv) Telescope normal and (v) Telescope inverted. Explain with sketch temporary adjustment of a theodolite.
On comple Any reveal	7	a. b.	Describe with the help of sketches, the characteristics of contour. Explain with sketches, the uses of contour maps.
2.	8		Write short notes on:
Important Note		a. b. c. d.	Advantages and disadvantages of plane table Perpendicular and oblique offset Orientation of plane table Types of chain

Second Semester B.Arch. Degree Examination, Dec.2017/Jan.2018 Surveying & Levelling

Max Marks:100

(10 Marks)

(10 Marks)

(10 Marks)

- of 1500m. It was found to stance of 2900m. Find the the work. (10 Marks)
- a point on the chainline.

(10 Marks)

- he mainline were taken on long was laid down and a points B, D & C being in to be 125 m and 150 m (10 Marks)
- (10 Marks)

with neat sketch.

(10 Marks)

- ark. (10 Marks)
 - d 5 m leveling staff on 885, 1.030, 1.925, 2.825, first point was 208.125m. he R.L. of points by rise e last point. (10 Marks)
- ii) Line of collimation (10 Marks) (10 Marks)

(10 Marks) (10 Marks)

USN



(20 Marks