b.





USN							6	19.00 10.00 10.00) (O M	Ban	galore	15E	NG2	2.7

Second Semester B.Arch. Degree Examination, June/July 2018

Site Surveying and Analysis

Tin	ne: 3 hrs.	O De la companya della companya della companya de la companya della companya dell	Max. Marks: 100
	Note: Answer any FIVI	full questions, choosing one full question f	rom each module.
1	a What is surveying? F	Module-1 Main the classifications of surveying	(08 Marks)

- What is ranging? With a neat sketch, explain indirect ranging. 2 (07 Marks) a. List the different types of chains used in surveying. Explain any one with a neat sketch. b.
 - 4 20 m chain was found to be 15 cm too long after chaining a distance of 1500 m. It was found to be 20 cm too long at the end of days work after chaining a total distance of 3200 m. ⊙(07Marks) Find the true distance if the chain was correct before starting of work.

Module-2

OR

- Explain any three methods of correcting perpendicular to a chain line. a.
 - (09 Marks) (06 Marks)
 - Explain the temporary adjustment with respect to plane table surveying What are the advantages and disadvantages of plane table surveying?

(05 Marks)

(06 Marks)

(06 Marks)

- Define the following terms used in leveling:

List the applications of surveying. Explain the principles of surveying.

- i) Bench mark ii) Fore sight
- iii) Elevation

(06 Marks)

b. Following were readings obtained from the leveling operation. Compute the levels of all the points. The instrument was shifted after 5th and 11 cading. RL of BM is 100 m. Apply the check.

3.775, 0.350, 0.505,1.010, 1.735, 3.295, 1.300, 3.375, 1.735 2.575, 3.895,

(14 Marks)

Module-3

- What is a contour? What are the characteristics of a contour? a. (10 Marks) Explain any two indirect methods of locating contour. b. (10 Marks)

- Explain the temporary adjustments of a theodolite. 6 a. (08 Marks) Explain repetition method of measuring horizontal angle using theodolites. b. (06 Marks) (06 Marks)
 - What are the uses of total station?

Module-4

Explain in detail the reconnaissance survey during the observation of a site. 7 (08 Marks) Explain aerial and terrestrial photogrammetry. (12 Marks)

OR

- Explain how the analysis of a site is done with respect to the following factors: 8
 - i) soil
 - ii) climate
 - iii) topography
 - iv) vegetation
 - v) influence of water bodies

(20 Marks)

Module-5

Explain any ten notations used in land survey drawings.

(10 Marks)

Explain briefly types of land survey maps.

(10 Marks)

OR

- Explain the following terms used in setting out works: 10
 - i) Reference grids

ii) Horizontal and vertical controls

(08 Marks)

(08 (12) SANORAL OF S With a neat sketch briefly explain the setting out of center line of a building.