# CBCS SCHEME

USN				15ENG2.7
		Second Semester B.Arch. Degree	Examination, .l	une/July 2019
		Site Surveying a		1.70
Tin	ne: í	3 hrs.		Max. Marks: 100
	Λ	ote: Answer any FIVE full questions, choosing	an ONE full avaction	n from each module
		over missier any 117 L juit questions, enousing	ig OIVL juit questio	n from each module.
_		Module		
1	a.	What are the principles of surveying? Explain		(08 Marks)
	b.	Explain the classification of survey based on	nature of field.	(08 Marks)
	C.	Define Shrunk scale.		(04 Marks)
		OR		
2	a.	What are the instruments used in chain survey		(0434-1-)
_	b.	What are the different method of ranging?		(04 Marks)
	c.	A line has measured by 20m chain. The chair	in was accurate hefe	(08 Marks)  ore starting the work. After
		chaining 1200m, the chain was found to be 6	icm too long. After	chaining a total distance of
		1800m, the chain was found to be 14cm too lo	ong. Find the true di	stance of line (08 Marks)
		Module-		
3	a.	What are the different methods of setting out	perpendicular line to	given line? (10 Marks)
	b.	Explain radiation method of plane tabling.		(10 Marks)
		OR		
4	a.	Define the following:		
•	ш.	i) Mean sea level	RVA Y	
		ii) Line of collimation	en e	
		iii) Benchmark		
		iv) Parallax		
		v) Reduced level.		(10 Marks)
	b.	The following consecutive readings were tak	en with level and a	4m staff, on continuously
		sloping ground at a common interval of 30m:		
		0.580 on A, 0.935, 1.95, 2.840, 3.665, 3.90,	, 0.96, 1.040, 1.700	0, 2.55, 3.85, 0.955, 1.780,
		3.02 on B.  The elevation of A is 520 4m. Enter the real	odinos in a lassal la	1 1 1' C 11' C'
		The elevation of A is 520.4m. Enter the reamethod and apply usual check.	adings in a level bo	
		mound and appry usual check.		(10 Marks)
		Module	-3	
5	a.	Define contour, what are the characteristics of		(10 Marks)
	b.	What are the uses of contour?		(10 Marks)

Explain the repetation method of measuring the horizontal angle. What are the temporary adjustments of theodolite explain each. (10 Marks) (10 Marks)

### Module-4

- 7 a. Explain in detail the reconnaissance survey during observation of site. (10 Marks)
  - b. What are the advantages of modern instrument?

(10 Marks)

### OR

- 8 Explain how the analysis of site is done with respect to the following factors:
  - i) Topography
  - ii) Site soil
  - iii) Vegetation
  - iv) Climate
  - v) Water bodies.

(20 Marks)

## Module-5

What are the various notations to be indicated on a land survey drawing? Draw any 10 notations. (20 Marks)

#### OR

Sketch the plan of a small resilence to suitable scale indicate all dimensions including centre line. (20 Marks)

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