CBCS Scheme

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USN	I		15ENG2.7
		Second Semester B.Arch. Degree Examination, June/July	y 2018
		Site Surveying and Analysis	
Tir	ne: í	3 hrs.	x. Marks: 100
	1	Note: Answer any FIVE full questions, choosing one full question from each	n module.
		Module-1	
1	a.	What is surveying? Explain the classifications of surveying.	(08 Marks)
	b.	List the applications of surveying.	(06 Marks)
	C.	Explain the principles of surveying.	(06 Marks)
			(
		OR	
2	a.	What is ranging? With a neat sketch, explain indirect ranging.	(07 Marks)
	b.	List the different types of chains used in surveying. Explain any one with a n	eat sketch.
	((06 Marks)
	C	A 20 m chain was found to be 15 cm too long after chaining a distance of	1500 m. It was
- A S	(0,0)	found to be 20 cm too long at the end of days work after chaining a total dist	ance of 3200 m.
d :	7	Find the true distance if the chain was correct before starting of work.	(07 Marks)
			(1)
2		Module-2	
3	a.	Explain any three methods of correcting perpendicular to a chain line.	(09 Marks)
	b.	Explain the temporary adjustment with respect to plane table surveying.	(06 Marks)
	C.	What are the advantages and disadvantages of plane table surveying?	(05 Marks)
4	0	Define the following towns yeard in leveling:	
4	a.	Define the following terms used in leveling: i) Bench mark ii) Fore sight iii) Elevation	
	b.		(06 Marks)
	υ.	Following were readings obtained from the leveling operation. Compute the	levels of all the
		points. The instrument was shifted after 5 th and 1 th reading. RL of BM is 10 check.	00 m. Apply the
		0.505, 1.010, 1.735, 3.295, 3.775, 0.350, 1.300,	
			/4 / 5 // - 1
		1.795, 2.575, 3.375, 3.895, 1.735, 0.635, 1.605.	(14 Marks)
		Module-3	
5	a.	What is a contour? What are the characteristics of a contour?	(10 Marks)
	b.	Explain any two indirect methods of locating contour.	
		The manage manage of locating contour.	(10 Marks)
		OR	
6	2	Evnlain the temporary adjustments of a theodolite	

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

Module-4

7 a. Explain in detail the reconnaissance survey during the observation of a site.

b. Explain aerial and terrestrial photogrammetry. (08 Marks)

(12 Marks)

OR

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

(20 Marks)

Module-5

9 a. Explain any ten notations used in land survey drawings.

(10 Marks)

b. Explain briefly types of land survey maps.

(10 Marks)

OR

- 10 a. Explain the following terms used in setting out works:
 - i) Reference grids
 - ii) Horizontal and vertical controls

(08 Marks)

b. With a neat sketch briefly explain the setting out of center line of a building.

(12 Marks

