USN	1		15ENG2.7
		Second Semester B.Arch. Degree Examination, June/July	2018
		(SI)	2010
		Site Surveying and Analysis	
Tir	ne í	3 hrs. Max	. Marks: 100
1 111	110	, ms.	. Marks. 100
	Ι	Note: Answer any FIVE full questions, choosing one full question from each t	module.
1	•	What is surveying 2 First on the classifications of surveying	(00 Massles)
1	a. b.	What is surveying? Explain the classifications of surveying. List the applications of surveying.	(08 Marks) (06 Marks)
	c.	Explain the principles of surveying.	(06 Marks)
	٥.	Explain the pyriciples of surveying.	(00 1/121 k3)
		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 near	it sketch.
	((06 Marks)
,	Est.	20 m chain was found to be 15 cm too long after chaining a distance of 1	
u,	(S)	Found to be 20 cm too long at the end of days work after chaining a total distantion of the chain was account to force starting of works	nce of 3200 m.
STE	7	Find the true distance if the chain was correct before starting of work.	(Tuo Marks)
(C)		Module-2	(9)
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)
		OR NO	
4	a.		
	,	i) Bench mark ii) Fore sight iii) Elevation	(06 Marks)
	b.	Following were readings obtained from the leveling operation. Compute the leveling operation. The instrument was abided often 5th and 1 th ordinary PL of PM is 100	
		points. The instrument was shifted after 5 th and 11 th reading. RL of BM is 100 check.	m. Apply the
		0.505, 1.010, 1.735, 3.295, 3.775, 0.350, 1.300,	
		1.795, 2.575, 3.375, 3.895, 1.735, 0.635, 1.605.	(14 Marks)
		// Module-3	ļ
5	a.	What is a contour? What are the characteristics of a contour?	(10 Marks)
	b.	Explain any two indirect methods of locating contour.	(10 Marks)
_	_	OR Finals in the temporal Ainstments of a theodolite	(09 Marks)
6	a. h	Explain the temporary adjustments of a theodolite. Explain repetition method of measuring horizontal angle using theodolites.	(08 Marks) (06 Marks)
	b. c.	What are the uses of total station?	(06 Marks)
	C.	What are the upon or total station.	(00 1120110)
		Module-4	
7	a.	Explain in detail the reconnaissance survey during the observation of a site.	(08 Marks)
	b.	Explain aerial and terrestrial photogrammetry.	(12 Marks)

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OR

Explain how the analysis of a site is done with respect to the following factors:

i) soil

ii) climate

iii) topography 8

- 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) Réference grids

ii) Horizontal and vertical controls

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