

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

		Site Surveying and Analysis	10
Tir	ne: 3	3 hrs. Max. Max. Max. Max. Max. Max. Max. Max	arks:100
No	te: 1	. Answer FIVE full questions, selecting at least ONE questions from each	
	2	. Missing data may be suitably assumed.	
		$\underline{\text{Module} - 1}$	
1	a.	Explain the two principles of surveying.	(08 Marks)
	b.	Define surveying and levelling.	(04 Marks)
	C.	The area of the plan of an old survey plotted to a scale of 10 meters to 1cm measu	res now as
		100.2 cm <sup>2</sup> . The plan is found to shrunk so that a line originally 10cm now measured only. Find: i) The shrunk scale ii) The true area of survey.	
			(08 Marks)
2	0	Describe Instruments for chaining.	(40 3 % 3 )
4	a. b.	Explain Direct and Indirect ranging.	(10 Marks)
	υ.	7 110	(10 Marks)
2		Module – 2	
3	a.	How do you errect perpendicular to a chain line forma point outside it?	(09 Marks)
		Enumerate plane table accessories.  Explain two methods of orienting plane table.	(07 Marks)
(			(04Marks)
-1	The	OR OR	\$3
	a.	Define the following terms in Levelling  i) Station  ii) H.I  iii) B.S  iv) F.S  iv) T.P.	0)
	b.	i) Station ii) H.I iii) B.S iv) F.S iv) T.P. What are the advantages of Rise and fall method over HI method of booking an	(10 Marks)
	υ.	levels?	(05 Marks)
	C.	List instrumental and natural errors in leveling.	(05 Marks)
		Module – 3	(ob mans)
5	a.	Enumerate the characteristics of contours.	(08 Marks)
	b.	Explain Indirect method of contouring.	(06 Marks)
	C.	Describe uses of contour maps.	(06 Marks)
		OR ON	
6	a.	Define the following terms with respect to the dolite	
		i) The line of sight ii) Transiting iii) Swinging the telescope	
		iv) Changing face v) The axis of level tube.	(10 Marks)
	b.	How do you measure horizontal angle by repetition method in case of theodolite.	Pescribe.
			(10 Marks)
		Module – 4	
7		You visit an undeveloped plot of area lacre in an urban locality without any instru	ament. List
		out your surveying observations.	(20 Marks)
		OR	
8		Explain the analysis of following natural factors on a site.	
	a.	Topography b. Hydrology c. Vegetation d. Microclimate	(20 Marks)
		Module – 5	
9	a.	Explain types of land survey drawings.	(15 Marks)
	b.	List ten standard symbols used in above drawings.	(05 Marks)

OR

Draw detailed plan of a two bed room building. 10

(20 Marks)