		CBCS SCHEME	
USN			ISENG27
Second Semester B.Arch. Degree Examination, Jan./Feb. 2023			
Site Surveying and Analysis			
Time: 3 hrs. Max. Marks: 100			
Note: Answer any FIVE full questions, choosing ONE full question from each module.			
1	a.	What is surveying? Explain the classification of surveying.	(08 Marks)
	b.	Explain the principle of surveying.	(12 Marks)
2	a.	OR List and explain the different types of chains used in surveying.	(10 Mortes)
-	b.	What is Ranging? Explain indirect ranging with a neat sketch.	(10 Marks) (10 Marks)
2		Eveloin the full second data in the full second data in the full second data in the second data is the the secon	
3	a.	Explain the following with a neat sketch: (i) Total Station (ii) Baseline (iii) Tie Station	(10 Marks)
	b.		(10 Marks)
4	9	Define the following terms used in levelling:	
4	a.	(i) Elevation (ii) Benchmark (iii) Foresight (iv) Line of collimation	(10 Marks)
	b.	Plot the following cross staff survey of a field ABCDEFG and calculate	
		[Refer Fig.Q4(b)].	
		750 D.	
		650 210 E	
		c180 490 7	
		300 250F * 2 3 - AD	
		B(60 180 G	
	1		
		100 50G	
		F I I	
		(a) (b)	
		Fig.Q4(b)	(10 Marks)
Module-3			
5	a.	What is a contour? List the characteristics of counter line.	(10 Marks)
	b.	List the various uses of contour map.	(10 Marks)
		OR	

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6a. How do you measure horizontal angle by repetition method using theodolite.(10 Marks)b. What are the components of total station?(10 Marks)

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Module-4

- Explain how analysis of a site is done with respect to the following factors: 7
 - i) Topography ii) Soil iv) Climate
 - iii) Hydrology

(20 Marks)

OR

Explain Reconnaissance survey during observation of site. 8 (10 Marks) a. What is aerial and terrestrial photogrammetry? b. (10 Marks)

Module-5

(10 Marks) 9 Explain briefly types of land survey maps. a. (10 Marks) Draw any 10 notations used to indicate land features on maps. b.

OR

With a relevant sketch, explain the process of setting out of centre line of a building. 10 a.

- Explain the following terms used in setting out works: b. i) Reference Grids
 - ii) Horizontal and Vertical Controls.

(10 Marks)

(10 Marks)