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# Second Semester B.Arch. Degree Examination, Feb./Mar. 2022 Site Surveying and Analysis

Time: 3 hrs	•	The same of the sa	Max. Marks:100

Note: Answer any FIVE full questions,	choosing ONE full	question from each module.
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1	b.	Define Surveying. Give the classification of Surveying.  Differentiate between Plane Surveying and Geodetic Surveying.  Explain Principles of Surveying.	(08 Marks) (06 Marks) (06 Marks)
	C.	Explain Frinciples of Surveying.	(0011241145)

# OR

2	a.	What are the instruments used in Chain Surveying? Explain.	(15 Marks)
		Briefly explain the different types of Chains	(05 Marks)

3	a.	With neat sketch, explain the methods of Erecting perpendiculars.	(10 Marks)
		Explain Plane table Accessories with sketches.	(10 Marks)

4	a.	Define the following terms	: i) Back sight	<li>ii) Bench mark</li>	iii)	Reduced level
		( )	Foresight.			(10 Marks)

The following staff readings were observed successively with a level, the instrument was shifted after third, sixth and eighth readings. 2.228, 1.606, 0.988, 2.090, 2.864, 1.262, 0.602, 1.982, 1.044, 2.684 meters.

Enter the above readings on a page of a level book and calculate the RL of points. If the first reading was taken with a staff held on a bench mark of 432.384 meter. Use Rise and Fall (10 Marks) method.

### **MODULE - 3**

5	a.	Explain with neat sketches, characteristics	of Contours. 🆸	(15 Marks)
	b.	What are the uses of Contours Maps?		(05 Marks)

### OR

Explain methods of measuring horizontal and vertical angles using Theodolite. (15 Marks) (05 Marks) b.

Write a note on Total Station.

## **MODULE - 4**

- Explain how the analysis of site is done with respect to the following factors: Soil iv) Vegetation v) Influence on water bodies. iii) Topography Climate (15 Marks)
  - Explain Aerial Photogrammetry.

#### OR

- Explain Survey method instruments using geometry and one's own body. 8 (15 Marks) (05 Marks)
  - Explain how to read the terrain.

#### **MODULE - 5**

9 Write the Conventional symbols used in maps any ten. (20 Marks)

(05 Marks)

With a neat sketch, explain the Setting out of Centre line of a building. (20 Marks)

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