

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY
Question Bank (I-Scheme)

Name of subject: Basic Surveying

Subject code: 22205

Unit Test :I

Course : CE

Semester: II

CHAPTER 1 (overview and classification of survey)

2 Marks

- a. Define the term Surveying.
- b. List the different instruments used for linear measurement.
- c. state the objectives of Surveying .
- d. state the uses of surveying
- e. why scales are made? State the different types of scales being used for Surveying.

4 Marks

- a) Explain the principals Surveying.

CHAPTER 2 (Chain and cross staff Survey)

2 Marks

- a. Draw conventional symbols for i) bridge ii) Temple
- b. Define Base line and check line.
- c. Draw conventional symbols for i) Banking ii) Railway double line iii) cutting iv) Road Bridge

4 Marks

- a. Define the term Offset. Explain the types of Offset with neat sketches.
- b. state and explain the various types of obstacles met during the chaining operation
- c. Describe the principal, construction and working of an optical square..
- d. write down the types of errors generally occurred in chaining .
- e. explain the procedure of field work of chain survey .
- f. State and explain different methods of chaining on slopping ground .

- g. State the principal of chain Surveying Explain the term well conditioned triangle and ill conditioned triangle
- h) A page of field book of cross staff Survey is given as following plot the required figure and calculate the relevant area

	100	
F(60)	90	
	65	E(28)
D(20)	40	
	20	C(42)
	0	
	A	

CHAPTER 3 (Chain and Compass Traverse Survey)

2 Marks

- a. Define the term true bearing
- b. State the uses of Compass Survey.

3 Marks

- a. Explain Compass traversing and also explain types of Traversing
- b. explain the Prismatic compass with neat sketch and give the function of each component
- c. Explain the Fore bearing and back bearing of line with neat sketches and give relation between them
- d. How the Magnetic bearing will be designed OR Explain the whole circle bearing and reduced bearing system with neat sketch
- e. How the closing error can be adjusted from traverse. Explain with diagram.
- f. Define the following terms with neat sketches i) Geographic / true meridian ii) magnetic bearing iii)magnetic declination iv)isogonic lines and Agonic lines v) local attraction

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