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Total No. of Pages : 02

Total No. of Questions : 08

B. Architecture(Sem.-3)
SURVEYING AND LEVELING
Subject Code : UC/BARCH-305/19
M.Code : 78610

Time : 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt FIVE questions,at least ONE question from each UNIT.
2. All Questions carry equal marks.

UNIT-I

- 1) Differentiate between Magnetic and True Meridian. What is the included angle B if fore bearing of line AB is 107 degree and 15 min and line BC is 12 degree?
- 2) Write a detailed note on :
 - a) Obstacles in chaining
 - b) Base line.

UNIT-II

- 3) For a traverse, following readings were observed with a compass. Calculate the back bearing of lines and the interior angles. Apply Check.

Line Fore bearing

AB 60 degree 30 min

BC 122 degree 00 min

CD 46 degree 00 min

DE 205 degree 30 min

EA 300 degree 00 min

- b) What are the different steps for setting up of plane table. Also write a note on two point problem.

4) a) What is Bench mark?

b) The following consecutive reading were taken with dummy level :

3.325, 3.050, 2.755, 1.575, 0.625, 3.575, 2.875, 1.255, 1.785, 0.795, 0.780. The level was shifted after the fifth and eight readings. The first reading was taken on the bench mark of RL 2445.755. Enter the reading in the level book and calculate the reduced levels of all points. Apply usual check.

UNIT-III

5) Define the following :

a) Contour

b) Contour line

c) Contour Interval

d) Horizontal Interval

6) What are the uses and characteristics of contour line?

UNIT-IV

7) Write short note on :

a) Hand level

b) Abney's Level

c) Planimeter

8) Explain Total station and give its advantages and disadvantages.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student..