

Roll No.

Total No. of Pages : 02

Total No. of Questions : 08

B.Arch. (Sem.-3)
SURVEYING AND LEVELLING-I
Subject Code : AR-233
M.Code : 45026

Time : 3 Hrs.

Max. Marks : 50

INSTRUCTION TO CANDIDATES :

1. Attempt FIVE out of EIGHT questions.
2. All questions carry EQUAL marks.

1. (a) Write brief descriptions of various equipments used in chain surveying.
(b) Explain the process of chaining between two stations.
2. Draw a neat sketch of a Prismatic compass and label its various parts.
3. In a closed traverse the following bearings were observed with compass :

Line	F.B.	B.B.
AB	84°-00'	264°-00'
BC	92°-00'	272°-00'
CD	166°-00'	343°-00'
DE	177°-00'	0°-00'
EA	189°-00'	9°-00'

Where do you suspect local attractions? Find the correct bearing.

4. Explain two point problem.
5. Draw and label a neat sketch of dumpy level.
6. The following consecutive readings were taken with a 4m leveling staff on a continuously sloping ground at a common interval of 30m between two stations A and B:
1.545(on A), 2.330, 3.105, 3.815, 0.580, 1.375, 2.055, 2.810, 3.455 (on B).

The R.L. of A was 110.450. Calculate the R.L.s of various points and find the gradient of line AB. Apply usual checks.

7. Explain different methods of contouring.
8. Explain any two instruments :
 - (a) Box sextant
 - (b) Hand level
 - (c) Abney Level

www.FirstRanker.com

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