[Total No. of Questions:4] Class Roll No....

[Total No. of printed pages: 1] Enrollment No.....

1st MID-SEM EXAMINATION, [April-2024]

Civil Engineering & Mechanics [CS-105]

II SEM

Time: 1 1/2 Hrs.

Maximum Marks: 20

Note: Attempt all questions.

O.1. Write a note on: (any two)

CO-2(5 marks

- (i) Bench Mark
- (ii) Ranging
- (iii) Height of instrument
- (iv) Profile Levelling

OR

Explain EDM method of survey.

Q.2. What is local attraction? How it can be detected?

CO-2(5 marks)

The following staff readings were taken on a continuously sloping ground by a level and a 4m leveling staff-0.230, 0.455, 0.540, 1.245, 1.90, 2.190, 3.20, 0.855, 1.50, 2.285, 3.35, 0.590, 1.55, 2.645, 3.120, 3.45m Calculate the RL of all station points. Apply arithmetical checks. The RL of first point was 580 m.

Q. 3. State & derive the equation of Law of Parallelogram of forces. CO-04 (5 Marks)

OR

Find the tension in string AC & BC in the fig.