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Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (CE) (Sem.-3rd) SURVEY-I

Subject Code : CE-201 Paper ID : [A0601]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each
- SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

- Answer briefly :
 - a) Why is it important to 'work from the whole to part and never from part to whole' in surveying?
 - b) What is meant by 'representative fraction'?
 - Give the conventional signs used to represent the following surface features on a survey map (i) Compound wall (ii) Katcha Building
 - d) Examine whether the triangle having sides 60 m, 40 m and 30 m is well conditioned or not.
 - e) Differentiate between open and closed traverse.
 - f) What is dip? How does it affect bearing measurement?
 - g) List any two advantages of plain tabling.
 - h) What is meant by reduced level?
 - i) Differentiate between line of sight and line of collimation.
 - j) What do you understand by 'temporary adjustments' of level?

SECTION

- 2. Explain 'Chaining by steps' in moving of
- 3. In 1880 the bearing of a line was me of the needle was measured as 10° declination was measured to be 14°40 of the line in 1980?
- What is meant by closing error in a method of adjustment of closing error.
- An excavation is to be made for a res bottom and 3 m deep. The sides of e 1 vertical. Assuming surface of ground the volume of excavation.
- 6. The following readings are successiv leveling work:

0.224, 0.354, 0.565, 1.765, 1.890, 2 The position of the instrument was chreadings. Draw out the level field point was 100.00, calculate the RL of method. Apply the check.

SECTION -

- .
 - a) contour interval
-

b) cont

- c) interpolation of contour d) cont
- a) State the advantages and disadvar errors in plane tabling.

7. Explain the terms with reference to con-

- b) Explain the two point problem and I
- 9. Explain with sketches the use of:
 - a) Abney level
- b) Box sextant
- c) Clinometer
- d) Dumpy level

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