Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CE) (Sem.-4th) SURVEY-II

Subject Code: CE-202

Paper ID : [A0606]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 1. SECTION-A is COMPULSORY.
- 2. Attempt any FOUR questions from StCTION B.
- 3. Attempt any TWO questions from SECTION-C.

SICTION-A

 $(10 \times 2 = 20 \text{ Marks})$

- l. Write short notes on :
 - (a) Explain Collimation adjustment
 - (b) What is meant by satellite station?
 - (c) Write the expression for Bowdittch's Rule.
 - (d) Differentiate between temporary and permanent adjustments.
 - (e) Write the principle of theodolite traversing.
 - (f) Why Base line is used in Geodetic Surveying?
 - (g) Explain the principle of tacheometric survey.
 - (h) How the stations are fixed in Geodetic surveying?
 - (i) Explain axis signal correction.
- (j) Why traverse computations are necessary?

SECTION-B

 $(4 \times 5 = 20 \text{ Marks})$

- 2. What are the different methods of setting out curves.
- 3. What are latitudes and departures? How will you balance a closed traverse? What are the checks for closed and unclosed traverses?

- 4. What are the essential components of GIS? State its applications in Civil Engineering?
- 5. Explain the working principle of GPS.
- 6. What are platforms? Explain briefly different types of platforms used in remote sensing?

SECTION-C

 $(2 \times 10 = 20 \text{ Marks})$

- 7. The vertical angles to vanes fixed at 0.7m and 3.4m above the foot of the staff held, vertically at a point were -0°40' and +2°12' respectively. Find the horizontal distance and RL of the point if the level of instrument axis is 129.450m above datum?
- 8. Explain the different correction to base line measurements.
- 9. Explain any four permanent adjustments of a theodolite.

[A-12]-90