

SURVEYING-II
4th Exam/Civil/4514/Nov'24
(For 2018 Batch onwards)

Duration: 3Hrs.

M.Marks:75

Note: Use of Calculator is permitted in examination.

SECTION-A

Q1. Fill in the blanks.

15x1=15

- a. Contour lines cross ridge lines at _____ angles.
- b. _____ is common instrument used for contouring in a hilly area.
- c. The line of collimation _____ be perpendicular to the vertical axis. (Should/ need not).
- d. Face right and face left observations eliminate the _____ error.
- e. Tacheometric survey is more accurate and quicker in _____ areas.
- f. The stadia marking are made on _____.
- g. The necessity of providing a simple circular curve on a route is to change the _____.
- h. A vertical curve having convexity upward is known as _____.
- i. All the points on contour line represent _____ elevation.
- j. EDM stands for _____.
- k. For the measurement of areas _____ instrument is used.
- l. The constant vertical difference of level between two consecutive contours is called _____.
- m. There cannot be _____ error in the horizontal circle.
- n. Transiting is also known as _____.
- o. A set of curves having centres on the same side is known as _____ curve.

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. Describe the temporary adjustments of theodolite.
- ii. What are the uses of contour map?
- iii. Define centering and transiting in theodolites.
- iv. Explain the permanent adjustments of theodolite.
- v. Write a short note on tacheometry.
- vi. What do you mean by Transition curves and write down its advantages?
- vii. What do you mean by vertical curve? Where is it used?
- viii. Write a short note on Total station.
- ix. What are the advantages of tachometric surveying?

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. What are the different methods of contouring? Explain in detail.
- b. Explain in detail the sources of error in theodolite.
- c. Describe the procedure to determine the constants of a tacheometry in the field.
- d. Explain different types of curves with sketches.
- e. Define Contours. What are the characteristics of contours?