**CE 3004** 

## III Semester B.Tech. in Civil Engineering Examination, August 2011 SURVEYING – I

Time: 3 Hours

Max. Marks: 75

Instruction: Answer any five questions from Part -A, and Part -B.

## PART - A

I. Answer any five questions:

 $(5 \times 5 = 25)$ 

- 1) Write the classification of surveying.
- 2) Explain different obstacles in chain surveying.
- 3) Explain the radiation method of plane tabling.
- 4) Explain the term strength of fix in case of plane tabling.
- 5) Write the classification of leveling.
- 6) Explain the function of leveling staff.
- 7) Write the characteristics of contours.
- 8) Write a short note on horizontal curves.

## PART - B

II. Answer any five questions:

 $(5 \times 10 = 50)$ 

- 9) Describe the procedure to carry out the base line survey in chain surveying.
- 10) Define two point problems in plane table and explain how to solve it.
- 11) What are the precautions to be adopted in using the Compass? Explain.
- 1.2) In levelling between two points A and B on opposite banks of a river, the level was set up near A and the staff readings on A and B were 1.60 m and 2.44 m respectively. The level was then moved and set up near B, and the respective readings on A and B were 0.70 and 1.26. Find the true difference of level between A and B.
- 13) Explain profile levelling with suitable example.
- **14)** Name the methods of traverse carried out using vernier theodolite and explain any one method in detail.
- 15) Explain the various errors involved in theodolite survey.
- **1**6) List instruments required for mine surveying and explain the surveying of tunnels.

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