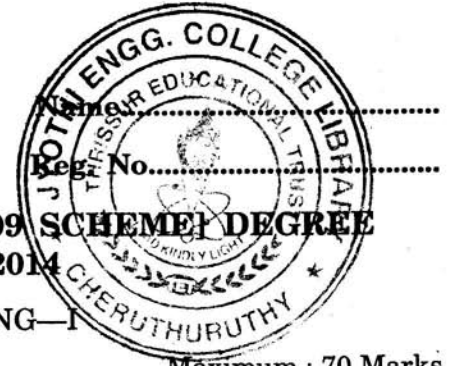


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**THIRD SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE
EXAMINATION, NOVEMBER 2014**

CE 09 305/PTCE 09 304—SURVEYING—I

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. Define survey.
2. Classify types of surveys.
3. What is the purpose of compass.
4. Define levelling.
5. List minor instruments.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. What is meant by reconnaissance survey.
7. Explain the reduced bearing.
8. Discuss the errors in plane tabling.
9. Discuss the temporary and permanent adjustments.
10. What are the uses of contour.
11. Define transition curves.

(4 × 5 = 20 marks)

Part C

Answer all questions.

12. Discuss in detail the instruments for chaining.

Or

13. Explain the errors in chaining.

Turn over

14. The following bearings were observed in running a closed traverse :

Line	F.B.	B.B.
AB	71°05'	250°20'
BC	110° 20'	292°35'
CD	161° 35'	341°45'
DE	220° 50'	40°05'
EA	300° 50'	121°10'

Determine the correct magnetic bearings of the lines.

Or

15. Explain any one method of plane table survey.
16. Discuss about leveling instruments.

Or

17. Discuss about methods of contouring.

18. Write short notes on :

- (a) Clinometer
- (b) Pantagraph.
- (c) Hypsometer.

Or

19. Discuss in detail the measurement of vertical angle by theodolite.

(4 × 10 = 40 marks)