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MCA-12, M.Sc. (CA)-11
2nd Year Examination, Calendar Batch 2016
Computer based optimization techniques

Time : 3 Hours]

[Max. Marks : 100

Note. Attempt any five questions. All questions carry equal marks.

- Q.1. What is the transportation problem? How it is useful in business and industry?
- Q.2. Define a queue? Give a brief description of the type of queue discipline commonly faced?
- Q.3. What is a non-linear programming problem?
- Q.4. Explain the terms Lead time, Re-Order point, Stock-out cost, and set-up cost. Derive Wilson's formula?
- Q.5. Define the term set-up cost, holding cost and shortage cost or penalty cost as applied to on inventory problem.
- Q.6. Explain the single channel and multi channel queuing model?
- Q.7. Obtain the expression for the EOQ for any one inventory Model Starting the assumption made.
- Q.8. Write short notes on :
a) Gomary's cutting plane method
b) Branch and Bound method