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M-1669

Sl.No.

Total No. of Pages : 3

IV Semester M.Com Degree Examination, May/June - 2018

(Scheme : CBCS)

COMMERCE

HC : Operations Research

Time : 3 Hours

Max. Marks : 70

PART - A

Answer any five questions. Each question carries five marks.

[5 × 5 = 25]

1. Write a note on origin of Operations Research.
2. Briefly explain the transportation model.
3. What do you mean by Simplex method?
4. Elucidate the Graphic method in LPP.
5. What do you mean by Branch and bound method?
6. Develop a model for Integer programming problems.
7. Briefly explain about the Assignment Problems.
8. Elucidate Vogel's Approximation Method [VAM].

P.T.O.

PART - C

14. Case Study (Compulsory) :

[1 × 15 = 15]

Solve the following problem by Simplex Method

Horizon manufacturer of furniture makes two products chairs and tables. Processing of these products is done on two machines A B and C. Profit gained by the manufacturer from a chair and table is Rs 80 and 100 respectively. A chair requires 1 hour in Machine A, 5 hours in machine B and 3 hours in machine C. A table requires 2 hours in machine A, 4 hours in machine B and 1 hour in machine C.

There are 720 hours available for machine A, 1800 hours for machine B and 900 hours for machine C.



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