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Name.....

Reg. No.....

SECOND SEMESTER M.Com. DEGREE EXAMINATION, JUNE 2018

(CUCSS-PG)

Commerce

MC 2C 9—MANAGEMENT SCIENCE

(2015 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Part A

Answer all questions.

Each question carries 1 weightage.

1. Define the term Operations Research.
2. What is modeling ?
3. What is meant by linear programming ?
4. Define the term Assignment.
5. What is CPM ?
6. Expand of PERT.

(6 × 1 = 6 weightage)

Part B

Answer any six questions.

Each question carries 3 weightage.

7. State the limitation of a graphical method.
8. Describe the merits of Management science.
9. State the characteristics of linear programming problem.
10. Write a note on Vogel's approximations methods.
11. Discuss the similarities and differences of CPM and PERT.
12. Give some applications of queueing theory.
13. What do you understand from a transportation model of OR ?
14. Write a note on various assumptions made in single-channel queueing theory.

(6 × 3 = 18 weightage)

Turn over

Part C

Answer any **two** questions.

Each question carries 6 weightage.

15. Explain the different types of models used in Operations Research.
16. Describe the role of network models of operations research for managerial decision-making.
17. Explain the linear programming problem is generalized matrix form.

(2 × 6 = 12 weightage)