

C 61133

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Name.....

Reg. No.....

**SECOND SEMESTER M.B.A. DEGREE EXAMINATION, MAY/JUNE 2019**

(CUCSS)

M.B.A.

BUS 2C 14—MANAGEMENT SCIENCE

(2016 Admissions)

Time : Three Hours

Maximum : 36 Weightage

**Part A**

*Answer all the questions.*

*1 weightage to each.*

1. What is strategic decision making ?
2. List the areas where management has its impact.
3. Why is optimally utilizing resources important ?
4. State the objective of LPP.
5. Define iconic models.
6. What can be inferred from simplex method of LPP ?

(6 × 1 = 6 weightage)

**Part B**

*Answer any four questions from the below questions.*

*3 weightage to each.*

7. Management science plays a pivotal role in decision making. Explain.
8. What are the uses of Transportation model ?
9. What are the differences between Transportation problem and Assignment Problem.
10. What are the limitations of Game Theory ?
11. Explain the objectives of network analysis.
12. Define Float, Free Float and Total Float for a project activity.

(4 × 3 = 12 weightage)

Turn over

## Part C

Answer any three from the following questions.

4 weightage to each.

13. What characteristics should a good model possess in order to be effective ? Enumerate.
14. Linear Programming can be applied in Industry and Management. How ?
15. Explain the steps involved in solving a problem using scientific method.
16. Explain the scope of production/operations management when a manufacturer of furniture makes two products, chair and tables. Processing of these products is done on two machines A and B. A chair requires 2 hours on machine A and 6 hours on machine B. A table requires 5 hours on machine A and no time on machine B. There are 16 hours of time per day available on machine A and 30 hours on machine B. Profit gained by manufacturer from a chair is Rs. 1 and from table is Rs. 5 respectively. Formulate the problem into L.P.P. in order to maximize the total profit.
17. What are the steps to be followed in solving a Management Transportation problem ?

(3 × 4 = 12 weightage)

## Part D

Answer the question below.

6 weightage.

18. For a project following time estimates are given. Prepare network and find project duration. Also find variance of the project.

Activity	Preceding	$t_o$	$t_p$	$t_m$
A ...	—	2	10	3
B ...	—	2	4	3
C ...	A	1	3	2
D ...	A	4	14	6
E ...	B	4	12	5
F ...	C	3	5	4
G ...	D, E	1	7	1

(1 × 6 = 6 weightage)