C 61133

(Pages : 2) 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)