



Second Semester MBA Degree Examination, June/July 2016
Quantitative Methods – II

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any THREE full questions from Q.No.1 to Q.No.6.
2. Question No. 7 and Q No. 8 is compulsory.

1.
 - a. What is saddle point in Game theory? (03 Marks)
 - b. Briefly explain the scope and applications of operation research. (07 Marks)
 - c. Solve the following LPP by graphical method.
 $\text{Max } Z = 40x_1 + 35x_2$
 Subjected to $2x_1 + 3x_2 \leq 60$
 $4x_1 + 3x_2 \leq 96$
 $x_1 \geq 0$ and $x_2 \geq 0$ (10 Marks)
2.
 - a. What is degeneracy in transportation problem? (03 Marks)
 A company produces 30 cars per day. The probability of daily sales quantity is given below:

Sales (units)	27	28	29	30	31	32
Probability	0.10	0.15	0.20	0.35	0.15	0.05
 - b. Simulate to next 10 days using the following random number and find how many days company loses opportunity of selling cars. Random Nos : 5, 95, 18, 63, 35, 84, 7, 54, 28, 14. (07 Marks)
 - c. A self service store employs six cashier at its customer. Every 5 minutes 9 customers arrive at an average, while the cashier can serve 10 customers in 5 minutes. Assuming Poisson distribution for arrival rate and exponential distribution for service rate, find
 - i) Average number of customer in the system.
 - ii) Average number of customer in the Q.
 - iii) Average waiting time the customer spends in the system.
 - iv) Average time the customer wait before being served. (10 Marks)
3.
 - a. What are the 3 basic elements of the general structure of LP model. (03 Marks)
 - b. Discuss briefly about Decision trees. (07 Marks)
 - c. A small project consisting of the following Jobs where time estimate are given below:

JOB	1-2	1-3	2-3	2-5	3-4	3-6	4-5	4-6	5-6	6-7
Time (Days)	15	15	3	5	8	12	1	14	3	14

 - i) Draw a network diagram
 - ii) Find float for each activity
 - iii) Find critical path and project duration. (10 Marks)
4.
 - a. List the composition of sequencing problem. (03 Marks)
 - b. A company produces 2 types of leather belts A and B. profits on the 2 types of belts are Rs 40/- and Rs 30/- per belt respectively. Each belt of type A requires twice as much time as required by belt B. If all belts are type B, the company could produce 1000 belts a day. The supply of leather is sufficient only for 800 belt per day. Belt A requires a fancy buckle and only 400 buckles are available per day. Belt B can be produced only to a maximum of 700 per day. How should the company manufacture 2 types of belts in order to maximize profit. Formulate LPP? (07 Marks)

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