

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII(NEW) • EXAMINATION – WINTER 2016

Subject Code:2171901**Date:23/11/2016****Subject Name: Operation Research****Time:10.30 AM to 1.00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a) What is linear programming problem? Discuss the scope and role of LPP in solving management problems. **07**

(b) A 24 hour supermarket has the following minimal requirements for cashiers: **07**

Period	1	2	3	4	5	6
Time of the day (24 hour clock)	3-7	7-11	11-15	15-19	19-23	23-3
Minimum number required	7	20	14	20	10	5

Period 1 follows immediately after period 6. A cashier works eight consecutive hours, starting at the beginning of one of the six time periods. Determine a daily employee worksheet which satisfies the requirements with the least number of personnel. Formulate the problem as an LPP.

Q.2 (a) Maximize $Z = 10x_1 + 15x_2$ **07**

Subject to constraints,

$$2x_1 + x_2 \leq 26,$$

$$2x_1 + 4x_2 \leq 56,$$

$$x_1 - x_2 \geq -5,$$

$$x_1, x_2 \geq 0$$

(b) Maximize $Z = 40x_1 + 35x_2$ **07**

Subject to constraints,

$$2x_1 + 3x_2 \leq 60,$$

$$4x_1 + 3x_2 \leq 96,$$

$$x_1, x_2 \geq 0$$

OR

(b) Obtain the dual of the LPP given here: **07**

Maximize $Z = 8x_1 + 10x_2 + 5x_3$

Subject to constraints,

$$x_1 - x_3 \leq 4, \quad 2x_1 + 4x_2 \leq 12,$$

$$x_1 + x_2 + x_3 \geq 0, \quad 3x_1 + 2x_2 - x_3 = 8,$$

$$x_1, x_2, x_3 \geq 0$$

Q.3 (a) As new automobile vehicle costs Rs. 10000 and it can be sold at the end of **07**

any year with the selling price as shown. The operating and maintenance cost are given year wise in following table. Find when the automobile vehicle needs to be replaced because of wear and tear.

Year	1	2	3	4	5	6
Selling price (Rs)	7000	5000	3000	2000	1000	500
Operating & Maintenance cost (Rs)	1000	1600	1800	2500	3000	3500

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