

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2021****Subject Code:3151910****Date:20/09/2021****Subject Name:Operation Research****Time:10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

- Q.1**
- (a) Explain limitations of operation research. 3
- (b) Explain advantages and limitations of linear programming. 4
- (c) Explain stepwise procedure to solve linear programming problem with graphical method. 7

- Q.2**
- (a) Explain different phases of Operation research. 3
- (b) Explain assumptions (properties) of linear programming. 4
- (c) Solve the following problem by simplex method:
 Maximize $Z = 3x_1 + 2x_2$
 Subject to constraints
 $2x_1 + x_2 \leq 5$ 7
 $x_1 + x_2 \leq 3$
 and $x_1, x_2 \geq 0$.

OR

- (c) Discuss various application areas of OR. 7
- Q.3**
- (a) What is degeneracy in transportation problem? 3
- (b) The following table shows costs of transportation per unit product from plants to cities. Find the Initial basic feasible solution using Voggle's approximation method.

From/To	D	E	F	Supply
A	4	5	1	40
B	3	4	3	60
C	6	2	8	70
Demand	70	40	60	

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- (c) The captain of a cricket team has to allot five middle order batting positions to 5 batsmen available for selection. The average runs scored by each batsman at these positions are summarized in a table below. Using Assignment model, determine the assignment of batsmen to positions which would give maximum runs in favor of team.

Batsman	Batting positions				
	I	II	III	IV	V
A	40	46	48	36	48
B	48	32	36	29	44
C	49	35	41	38	45
D	30	46	49	44	44
E	37	41	48	43	47

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