

# DSE 01 (Linear Programming)

F.M: 10 TIME: 30 MIN

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\* Required

1. Email \*

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2. NAME \*

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3. UNIVERSITY REGISTRATION NUMBER \*

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4. UNIVERSITY ROLL NUMBER \*

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Untitled Section

5.

1. Given a transportation problem with  $m$  origins and  $n$  destinations. Then for non-degenerate solution number of allocated cell equals

- a)  $m + n$       b)  $m + n - 1$       c)  $m + n + 1$       d)  $m \cdot n$

Mark only one oval.

a

b

c

d

6.

2. A L.P.P of the form

$$\begin{aligned} \max z &= cX \\ \text{subject to, } AX &\leq b, X \geq 0 \end{aligned}$$

then for optimality  $z_j - c_j$ 

a)  $\geq 0$

b)  $\leq 0$

c)  $\geq 1$

d) none of these

*Mark only one oval.* a b c d

7.

3. In a primal problem if i-th variable is unrestricted in sign the i-th constraint of the dual is

a)  $= 0$

b)  $= 1$

c)  $= 2$

d) none of these

*Mark only one oval.* a b c d

8.

4. A BFS of a LPP is said to be \_\_\_\_ if at least one of the basic variable is zero

a) Degenerate   b) Non-degenerate   c) Infeasible   d) unbounded

*Mark only one oval.* a b c d



12.

8. In a game in strategic form, a \_\_\_\_\_ is one of the given possible actions of a player.

- a) Payoff      b) Strategy      c) Reward      d) Penalty

*Mark only one oval.*

a

b

c

d

13.

9. A game is said to have a saddle point if

- a) maximin value  $>$  minimax value  
b) maximin value  $<$  minimax value  
c) maximin value  $=$  minimax value  
d) None of the above

*Mark only one oval.*

a

b

c

d

14.

10. The value of the following game is

		Player B		
		$B_1$	$B_2$	$B_3$
Player A	$A_1$	4	-2	1
	$A_2$	3	4	2
	$A_3$	-3	4	0

a) 2

b) 3

c) 4

d) 1

Mark only one oval.

 a b c d

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