F.

Optimization Techniques (BCA-C6001)

Attempt all the questions. Each question carries 2 marks.

M:-30. 1. Name:-2. Roll number :-3. 1. The maximum number of independent zero elements in a square matrix is the minimum number of lines required to cover all the zeros in the matrix. Mark only one oval. Less than Greater than Equal to 2. In a L. P. P, if the standard primal problem is of maximization, all the 2 points constraints involve the sign Mark only one oval.

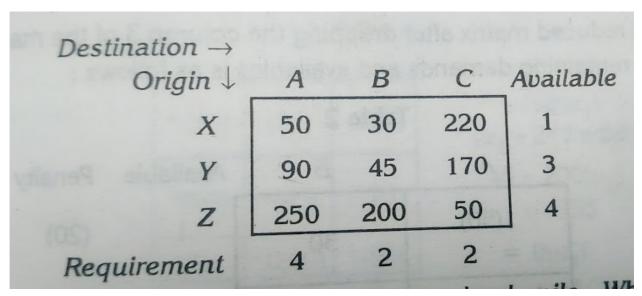
) None of these

| 5. | 3. In a transportation table, an ordered set of how many cells is said to form a loop? | 2 points |
|----|--|----------|
| | Mark only one oval. | |
| | 2 Or more | |
| | 3 Or more | |
| | 4 Or more | |
| | 5 Or more | |
| | | |
| 6. | 4. In the inequality 4x+3y >24, the points of intersection are | 2 points |
| | Mark only one oval. | |
| | (0, 0), (0, 8) | |
| | (0, 0), (0, 6) | |
| | (0, 8), (6, 0) | |
| | None of these | |
| | | |
| 7. | 5. Which method is also known as Modi method? | 2 points |
| | Mark only one oval. | |
| | N-W corner method | |
| | Lowest cost entry method | |
| | VAM | |
| | All of these | |
| | | |
| 8. | 6. If a L. P. P has no feasible region, then we say that the problem has | 2 points |
| | Mark only one oval. | |
| | Bounded solution | |
| | Unbounded solution | |
| | No solution | |
| | None of these | |

| 9. | 7. CPM is (a) probabilistic, (b) deterministic | 2 points |
|-----|---|----------|
| | Mark only one oval. | |
| | (a) (b) Both (a) & (b) Neither (a) nor (b) | |
| 10. | 8. The negative variables which are added to the L.H.S of the constraints to convert them into equalities are called | 2 points |
| | Mark only one oval. Artificial variables Slack variables Surplus variables All of these | |
| 11. | 9. An activity that must be completed immediately prior to the start of another activity is a successor activity. Mark only one oval. True False | 2 points |
| 12. | 10. The positive variables which are added to the L. H. S of the constraints to convert them into equalities are called Mark only one oval. | 2 points |
| | Slack variables Surplus variables Both of the above None of the above | |

13. 11. Select the maximum penalty in the first reduced matrix of the given transportation problem.

2 points

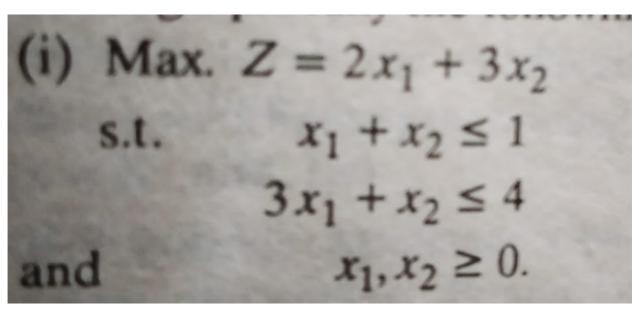


Mark only one oval.

- 120
- 150
- 160
- 90

14. 12. Consider the L. P. P.

2 points



Mark only one oval.

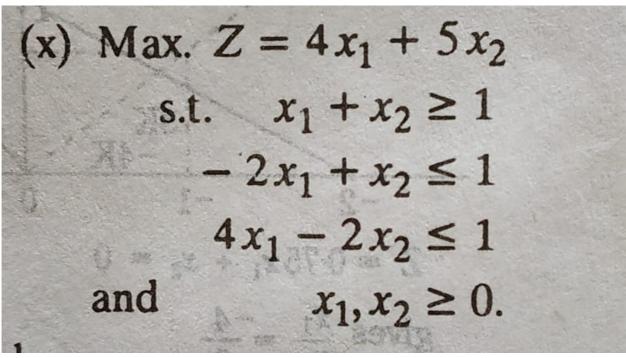
| The L. P. P has no feasible solutio | 1 |
|-------------------------------------|---|
| The L. P. P is unbounded | |
| The optimal value of L. P. P is 3. | |
| None of these. | |

15. 13. The objective of an assignment problem is to assign a number of jobs 2 points to an unequal number of persons.

Mark only one oval.

| \supset | True |
|-----------|-------|
| \supset | False |

16. 14. Consider the L. P. P



Mark only one oval.

| The L. P. P is unbounded. | |
|----------------------------|----------|
| The L. P. P is bounded. | |
| The L. P. P has an optimal | solution |
| None of these. | |

17. 15. A zero is said to be an independent zero if an assignment at this place 2 points the zeros at other places.

Mark only one oval.

| affect |
|-----------------|
| does not affect |

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2 points