

Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

Course Name - Operation Research

Course Code - BCM404(BL)

* You can submit the form ONLY ONCE.

* Fill the following information for further process.

* Required

1. Email address *

2. Name of the Student *

3. Enter Full Student Code *

4. Enter Roll No *

5. Enter Registration No *

6. Enter Course Code *

7. Enter Course Name *

8. Select Your Programme *

Mark only one oval.

- D.PHARM
- B.SC.(CS)
- B.SC.(HN)
- B.A.(MW)
- BBA
- [B.COM](#)
- BCA
- M.SC.(CS)
- M.SC.(HN)
- M.A.(MW)
- MBA
- MCA
- M.TECH(CSE)

Answer all the questions. Each question carry one mark.

9. 1. In a departmental store customers arrive at a rate of 20 customers per hour. The average number of customers that can be handled by cashier is 24 per hour. What is service rate in this problem?

Mark only one oval.

- 20
- 3
- 24
- 10

10. 2. In a departmental store customers arrive at a rate of 20 customers per hour. The average number of customers that can be handled by cashier is 24 per hour. Probability that cashier is idle?

Mark only one oval.

- 1/6
- 5/6
- 1
- 2

11. 3. In a transportation problem, when the number of occupied routes is less than the number of rows plus the number of columns -1, we say that the solution is

Mark only one oval.

- Unbalanced
- infeasible
- optimal
- degenerate

12. 4. What is meant by 'Payoffs' in Game Theory?

Mark only one oval.

- Outcome of a game when different alternatives are adopted by players
- No. of players involved in a game
- Value of a game
- Strategies used by players

13. 5. Which of the following statements concerning CPM activities is false?

Mark only one oval.

- The late finish of an activity is the earliest late start of all preceding activities
- The early finish of an activity is the early start of that activity plus its duration
- The late finish is the earliest of the late start times of all successor activities
- The late start of an activity is its late finish less its duration

14. 6. A competitive situation is known as a 'game' if it has given characteristics

Mark only one oval.

- Numbers of players is finite
- The players make individual decision without direct communication
- The payoff is fixed and determined in advance
- None of these

15. 7. CPM is:

Mark only one oval.

- Critical Project Management
- Critical Path Management
- Critical Path Method
- Crash Project Method

16. 8. Which of these is not correct

Mark only one oval.

- PERT is probabilistic in nature.
- CPM is deterministic in nature
- CPM is event-oriented
- CPM and PERT use similar terminology but were developed independently

17. 9. A point where maximin value = minimax, is called

Mark only one oval.

- Saddle point
- Solo point
- Cut off point
- None of these

18. 10. Mark the wrong statement:

Mark only one oval.

- A project is a set of activities that can be performed in a certain logical sequence.
- A network is a graphic portrayal of independency relationship among the activities of a project.
- An arrow representing an activity can have any length and shape
- An activity cannot be represented by more than one arrow but an arrow can represent one or more activities

19. 11. Which of the following is not a rule of network construction?

Mark only one oval.

- Each defined activity is represented by one and only one arrow.
- A network should have only initial and one terminal node
- Identical initial and final nodes can identify two activities.
- Only as few dummy activities should be included as is warranted

20. 12. The total cost of the optimal solution to a transportation problem

Mark only one oval.

- is calculated by multiplying the total supply (including any dummy values) by the average cost of the cells
- cannot be calculated from the information given
- is found by multiplying the amounts in each cell by the cost for that cell for each row and then subtract the products of the amounts in each cell times the cost of each cell for the columns
- can be calculated based only on the entries in the filled cells of the solution

21. 13. The stepping-stone method

Mark only one oval.

- is an alternative to using the northwest corner rule
- often involves tracing closed paths with a triangular shape
- is used to evaluate the cost effectiveness of shipping goods via transportation routes not currently in the solution
- helps determine whether a solution is feasible or not

22. 14. Operations Research was known as an ability to win a war without really going in to a

Mark only one oval.

- Battle field
- Fighting
- War
- Both Battle field and Fighting

23. 15. There is a great scope for ----- working as a team to solve problems of defense by using the Operations Research approach

Mark only one oval.

- Economists
- Administrators
- Statisticians and Technicians
- All of these

24. 16. Allocation problems can be solved by

Mark only one oval.

- Linear Programming Technique
- Non – Linear Programming Technique
- Both Linear Programming Technique and Non – Linear Programming Technique
- None of these

25. 17. In ----- models, everything is defined and the results are certain

Mark only one oval.

- Deterministic Models
- Probabilistic Models
- Both Deterministic Models and Probabilistic Models
- None of these

26. 18. Graphic method can be applied to solve a LPP when there are only ----- variable

Mark only one oval.

- One
- More than One
- Two
- Three

27. 19. _____ is another method to solve a given LPP involving some artificial variable?

Mark only one oval.

- Big M method
- Method of penalties
- Two-phase simplex method
- None of these

28. 20. MODI method is used to obtain -----

Mark only one oval.

- Optimal solutions
- Optimality test
- Both Optimal solutions and Optimality test
- Optimization

29. 21. For solving an assignment problem, which method is used?

Mark only one oval.

- Hungarian
- American
- German
- All

30. 22. To make an unbalanced assignment problem balanced, what are added with all entries as zeroes?

Mark only one oval.

- Dummy rows
- Dummy columns
- Both Dummy rows and Dummy columns
- Dummy entries

31. 23. Once the initial basic feasible solution has been computed , what is the next step in the problem

Mark only one oval.

- VAM
- Modified distribution method
- Optimality test
- None of these

32. 24. In a Transportation Problem, if the number of non-negative independent allocation is ----- than $m+n-1$

Mark only one oval.

- Equivalent
- Greater
- Less
- None of these

33. 25. In transportation model analysis the stepping-stone method is used to

Mark only one oval.

- obtain an initial optimum solution
- obtain an initial feasible solution
- evaluate empty cells for potential solution improvements
- evaluate empty cells for possible degeneracy

34. 26. In linear programming, lack of points for a solution set is said to

Mark only one oval.

- have no feasible solution
- have a feasible solution
- have single point method
- have infinite point method

35. 27. An event that represent the joint completion of more than one activity is known as

Mark only one oval.

- Burst event
- Joint event
- Merge event
- None of these

36. 28. Column in simplex initial table used to represent new basic variable is classified as

Mark only one oval.

- column variable
- key column
- key row
- row variable

37. An event that represent the joint completion of more than one activity is known as

Mark only one oval.

- Degenerate
- Non degenerate
- Optimum
- None of these

38. 30. When the number of shipments in a feasible solution is less than the number of rows plus the number of columns minus one

Mark only one oval.

- the solution is optimal
- there is degeneracy, and an artificial allocation must be created
- a dummy source must be created
- a dummy destination must be created

39. Submission ID (skip this field) *

⚠ DO NOT EDIT this field or your time will not be recorded.

This content is neither created nor endorsed by Google.

Google Forms