I. Operations Research approach is

Mark only one oval.

scientific

intuitive

- Collect essential data
- multi-disciplinary
- 2.
- Mark only one oval.

Option I

3. A feasible solution to a linear programming problem _ 2 points

Mark only one oval.

must satisfy all the constraints of the problem simultaneously

need not satisfy all of the constraints, only some of them

must be a mid point of the feasible region.

must optimize the value of the objective function

4. If any value in XB column of final simplex table is negative, then the solution is

Mark only one oval.



 An optimal assignment requires that the maximum number of lines which 2 points can be drawn through squares with zero opportunity cost should be equal to the number of

Mark only one oval.

\square	rows and columns.
\square	rows + columns.
\square	rows or columns.
\square	rows + columns - I

6. To proceed with the Modified Distribution method algorithm for solving 2 points an transportation problem, the number of dummy allocations need to be added are

Mark only one oval.



\bigcirc	convex
\bigcirc	polygon
\bigcirc	triangle
\bigcirc	bold

8.	In an Linear Programming Problem functions to be maximized or		
	minimized are called		

Mark only one oval.

- _____ constraints
- Objective function
- basic solution
- feasible solution
- The coefficient of slack\surplus variables in the objective function are 2 points always assumed to be

Mark only one oval.



- 0
- -M

transportation Problem

Game Problem

travelling salesman problem

replacement Problem

 II. To resolve degeneracy at the initial solution, a very small quantity is
 2 points

 allocated in ______cell

Mark only one oval.

occupied
 unoccupied

no

_____ finite

12. PERT analysis is based on

Mark only one oval.

Time

Project

Cost

13. Which of the option is not a notable challenge while scheduling a project?

Mark only one oval.

Deadlines exist.

Independent activities.

Too many workers may be required.

Costly delay

14. The particular task performance in CPM is known

Mark only one oval.

- Dummy
- Event

Activity

Contract.

15. The earliest start time rule

Mark only one oval.

Compares the activities starting time for an activity successor.

Compares the activities end time for an activity predecessor.

Directs when a project can start.

Regulates when a project must begin.

16. The critical path

Mark only one oval.

Is a path that operates from the starting node to the end node

Is a mixture of all paths.

Is the longest path

Is the shortest path

2 points

2 points

17. Planning tasks associated with job scheduling, machine loading, and dispatching typically falls under

2 points

Mark only one oval.

long-range plans

- intermediate-range plans
- short-range plans
- mission-related planning

18. Which of the following statements regarding PERT times is true? 2 points

Mark only one oval.

Optimistic time estimate is an estimate of the minimum time an activity will require.

Optimistic time estimate is an estimate of the maximum time an activity will require.

The probable time estimate is calculated as t = (a + 4m + b)/6.

Pessimistic time estimate is an estimate of the minimum time an activity will require.

19. Which of the following statements regarding critical paths is true? 2 points

Mark only one oval.

The shortest of all paths through the network is the critical path.

Some activities on the critical path may have slack.

Every network has exactly one critical path.

On a specific project, there can be multiple critical paths, all with exactly the same duration.

20. In game theory, the outcome or consequence of a strategy is referred to 2 points as the

Mark only one oval.

\bigcirc	payoff.
\bigcirc	penalty.
\bigcirc	reward.
\bigcirc	end-game strategy.

21. Activities A, B, and C are the immediate predecessors for Y activity. If the 2 points earliest finish times for the three activities are 12, 15, and 10, then the earliest start time for Y will be

Mark only one oval.

\bigcirc	12
\bigcirc	15
\bigcirc	10
\bigcirc	П

22. Activities P, Q and R instantly follow activity M, and their current start 2 points times are 12, 19, and 10. Therefore, the latest finish time for activity M is

Mark only one oval.

I9
Can not be detemined
I2
Io

Program Evaluation and Rate Technology

Program Evaluation and Robot Technique

Program Evaluation and Robot Technology

Program Evaluation and Review Technique

24. _____ are used to represent activity in a network (PERT) diagram. 2 points

Mark only one oval.

- Circles
 Squares
 Rectangles
 Arrows
- 25. The shortest possible time in which an activity of PERT can be achieved 2 points under ideal circumstances is known as

Mark only one oval.

- Pessimistic time estimate
- Optimistic time estimate
- Expected time estimate
- The most likely time estimate

26.	The difference between the maximum time available		0
	and the actual time needed to perform an activity is		t
	known as		а
	Mark only one oval.		Ι
	F		c
	r		T
	e		I
	e		0
			а
	f		t
	I		H a
	0		lf fl
	а		0
	t		t
	I		
	n		
	d		
	e		
	Ρ	Ι.	
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	f		
	I		
	0		
	a		
	t		
	Т		

А 2 points fea sibl е sol uti on to а lin ear pro gra m mi ng pro ble m

Mark only one oval.

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2. If any value in XB column of final simplex table is negative, then the 2 points solution is

Mark only one oval.

infeasible

bounded

- no solution
- Unbounded
- 3. An optimal assignment requires that the maximum number of lines which can be drawn through squares with zero opportunity cost should be equal to the number of *One oval.*

rows or columns.

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- с
- 0
- I u
- m
- n
- S
- •

4. To proceed with the Modified Distribution method algorithm for solving 2 points an transportation problem, the number of dummy allocations need to be added are

Mark only one oval.



5. The coefficient of slack\surplus variables in the objective function are 2 points always assumed to be

Mark only one oval.



6. An assignment problem is a particular case of

2 points

Mark only one oval.

transportation Problem

Game Problem

travelling salesman problem

replacement Problem

7. To resolve degeneracy at the initial solution, a very small quantity is 2 points allocated in ______ cell

Mark only one oval.

\bigcirc	occupied
\bigcirc	unoccupied
\bigcirc	no
\bigcirc	finite

8. The particular task performance in CPM is known

Mark only one oval.



9. The earliest start time rule

Mark only one oval.

- Compares the activities starting time for an activity successor.
- Compares the activities end time for an activity predecessor.
- Directs when a project can start.
- Regulates when a project must begin.

2 points

10. The critical path

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Is the longest path

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Mark only one oval.

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- short-range plans
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penalty.

reward.

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Mark only one oval.

I9
Can not be detemined
I2
Io

17. The full form of PERT is

Mark only one oval.

Program Evaluation and Rate Technology

Program Evaluation and Robot Technique

Program Evaluation and Robot Technology

Program Evaluation and Review Technique

18. _____ are used to represent activity in a network (PERT) diagram. 2 points

2 points

Mark only one oval.

Circles
Squares

Rectangles

Arrows

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Mark only one oval.

Pessimistic time estimate

Optimistic time estimate

Expected time estimate

- The most likely time estimate
- 20. The difference between the maximum time available and the actual time ² points needed to perform an activity is known as

Mark only one oval.

- Free float
- Independent float
- 🔵 Total float
- Half float
- 21. If the value of the game is zero, then the game is known as 2 points

Mark only one oval.

pure strategy

🔵 fair strategy

____ pure game

mixed strategy

2 points

Mark only one oval.

Fair game

non-zero sumgame

🔵 unfair game

🔵 zero sum game

23. In northwest corner method allocation are made

Mark only one oval.

Starting from the left hand side top corner

Starting from the right hand side top corner

Starting from the lowest cost cell

Starting from the left hand side bottom corner

24. While solving an assignment problem, an activity is assigned to a 2 points resource through a square with zero opportunity cost because the objective is to_____.

Mark only one oval.

	\square	reduce the cost of assignment to zero
--	-----------	---------------------------------------

minimize total cost ofassignment.

) . reduce the cost of that particular assignment to zero

reduce total cost of assignment

cell empty cell basic cell non-basic cell

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Google