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MANGEMENT SCIENCE

	In a balanced transportation model where supply equals demand,
	a. all constraints are equalities
	b. none of the constraints are equalities
	c. all constraints are inequalities
	d. none of the constraints are inequalities
2.	In a transportation problem, items are allocated from sources to destinations
	a. at a maximum cost
	b. at a minimum cost
	c. at a minimum profit
	d. at a minimum revenue
3.	The assignment model is a special case of the model.
5.	a. maximum-flow
	b. transportation
	c. shortest-route
	d. none of the above
1	The linear programming model for a transportation problem has constraints for supply
4.	at each and at each destination.
	a. destination / source
	b. source / destination
	c. demand / source
_	d. source / demand An assignment problem is a special form of transportation problem where all supply
5.	
	and demand values equal
	a. 0
	b. 1
	c. 2
	d. 3
6.	The transshipment model is an extension of the transportation model in which
	intermediate transshipment points are between the sources and destinations.
	a. decreased
	b. deleted
	c. subtracted
	d. added
7.	Inventory costs include
	a. carrying
	b. ordering
	c. shortage costs
	d. all of the above
8.	In a(an) inventory system a constant amount is ordered when
	inventory declines to a predetermined level.
	a. optional
	b. economic
	c. periodic
	d. continuous
0	
9	
	a. periodic



	b. continuous
	c. optimal
	d. economic
10.	In the linear programming formulation of the shortest route problem, there is one constraint for each node indicating
	a. capacity on each path
	b. whatever comes into a node must also go out
	c. capacity on each arc
	d. a maximum capacity on a path
11.	The minimal spanning tree problem determines the total branch lengths
	connecting all nodes in the network
	a. selected
	b. maximum
	c. minimum
	d. divided
12.	The objective of the maximal flow solution approach is to the total
	amount of flow from an origin to a destination
	a. minimize
	b. maximize
	c. discriminate
	d. divide
13.	If an activity cannot be delayed without affecting the entire project, it is a
	activity
	a. completed
	b. critical
	c. conjugated
	d. none of the above
14.	A represents the beginning and end of activities, referred to as events.
	a. path
	b. arc
	c. branch
	d. node
15.	When an activity is completed at a node, it has been
	a. finished
	b. ended
	c. realized
	d. completed
16.	Project management differs from management for more traditional activities mainly
	because of
	a. its limited time frame
	b. its unique set of activities
	c. a and b
	d. none of the above
17.	The critical path is the time the network can be completed.
	a. maximum
	b. minimum
	c. longest
	d. shortest
18.	Attributes of decision-making techniques include all of the following except:
	a payoffs



	b. constraints
	c. alternatives
	d. states of nature
19	. With the criterion, the decision maker attempts to avoid regret.
	a. minimax regret
	b. equal likelihood
	c. Hurwicz
	d. maximin
20	. To lose the opportunity to make a defined profit by making the best decision is
	referred to as:
	a. equal likelihood criterion
	b. state
	c. payoff
	d. regret
21	. The length of a queue
	a. could be finite
	b. could be infinite
	c. can constantly change
	d. all of the above
22	. Items may be taken from a queue
	a. on a first-come-first-serve basis
	b. on a last-come-first-serve basis
	c. according to the due date of the item
	d. all of the above
23	. Which of the following items is not a part of the queuing system?
	a. arrival rate
	b. service facility .
	c. waiting line
	d. activity flow
24	In a single-server queuing model, the average number customers in the queuing
	system is calculated by dividing the arrival rate by:
	a. service rate
	b. service time
	c. service rate minus arrival rate
	d. service rate plus arrival rate
25.	The most important factors to consider in analyzing a queuing system are
	a. the service and arrival rate
	b. the nature of the calling population
	c. the queue discipline
	d. all of the above
26.	Queuing analysis is a deterministic technique.
	a. True
	b. False
27.	The operating characteristics of a queuing system provide information rather than an
	optimization of a queuing system.
	a. True
	b. False
28.	The applicability of forecasting methods depends on
	a. the time frame of the forecast
	b. the existence of patterns in the forecast





- c. the number of variables to which the forecast is related d. all of the above
- 29. Management Science process includes
 - a. defining problem b. developing model c. both a and b d. a only
- 30. is an idealised representation of real life
 - a. model b. module c. analogue d. iconic model
- 31. If the value of the game is zero it is called
 - a. zero sum game b. two person zero game c. fair game d. none
- 32. Principles of modelling?
 - a. simplicity b. validity c. clarity d. all the above
- 33. The outcome of a game in the form of gain or losses is called......
 - a. pay off b. saddle point c. pay off matrix d. none
- 34. The loss incurred because of failure to take the best possible decision
 - a. opportunity loss b. contemporary loss c. opportunity cost d. expected loss
- 35. For a linear programming equations, convex set of equations is included in region of
 - a. feasible solutions b. disposed solutions c. profit solutions d.loss solutions
- 36. In graphical solutions of linear inequalities, solution can be divided into
 - a. one subset b. two subsets c. three subsets d. four subsets
- 37. Linear programming used to optimize mathematical procedure and is
 - a. subset of mathematical programming b. dimension of mathematical programming
 - c. linear mathematical programming d. all of above
- 38. In linear programming, objective function and objective constraints are
 - a. solved b. linear c. quadratic d. adjacent
- 39. Whatrefers

to Linear Programming that includes an evaluation of relative risks and uncertainties invarious alternatives of choice forman agement decisions?

- a) Probabilistic Programming
- b) Stochastic Programming
- c) Both A and B

d) Linear Programming



40	. Whatenablesustodeterminetheearliestandthelatesttimesforeachoftheeventsandactivities and thereby helps in the identification of the critical path?
	a. Programme Evaluation b. ReviewTechnique(PERT) c. BothAandB d. Deployment of resources
41	models involves the allocation of resources to activities in such a manner that some measure of effectiveness is optimized.
	a) Sequencing b) Allocation Models c) Queuing Theory d) Decision Theory
42	. Allocationproblemscanbesolvedby
	a) Linear Programming Technique b) Non – Linear Programming Technique c)Both A and B d) None of the above
43	. Allocation Models are
	a) Iconic models b) Analogue Models c) Symbolic Models d) None of the above
44.	Every LPP is associated with another LPP is called
	a) Primal b) Dual c) Non - linear programming d) None of the above
45.	As for maximization in assignment problem, the objective is to maximize the
	a) Profit b) optimization c) cost d) None of the above
46.	is one of the fundamental combinatorial optimization problems.
	a) Assignment problem b) Transportation problem c) Optimization Problem d) None of the above
47.	PERT and CPM
	a. are most valuable when a small number of activities must be scheduled.
	b. have different features and are not applied to the same situation.
	c. do not require a chronological relationship among activities.
	d. have been combined to develop a procedure that uses the best of each
48.	Arcs in a project network indicate
	a. completion times. b. precedence relationships. c. activities. d. the critical path.
49.	Activities G, P, and R are the immediate predecessors for activity W. If the earliest finish times for the three are 12, 15, and 10, then the earliest start time for W



- a. is 10. b. is 12. c. is 15. d. cannot be determined.
- 50. The critical path
 - a. is any path that goes from the starting node to the completion node.
 - b. is a combination of all paths.
 - c. is the shortest path.
- d. is the longest path
- 51. Times between two successive requests arriving, called the
 - a. Interarrival time b. Arrival time c. Poisson distribution d. Average residual service time
- 52. With the transportation technique, the initial solution can be generated in any fashion one chooses. The only restriction is that
 - a. the solution must be optimal.b. the solution is not degenerate. c. one must use the northwest-corner method. d. the edge constraints for supply and demand are satisfied.
- 53. Transportation models can be used for which of the following decisions?
 - a) facility location b) production mix c) media selection d) portfolio selection
 - e) employee shift scheduling
- 54. The two most common objectives for the assignment problem are the minimization of
 - a) uncertainty or inexperience b) total costs or inexperience c) total costs or total time d) total time or inexperience e) total costs or uncertainty
- 55. In an assignment problem
 - a) the number of rows and columns must be equal.
 b) the number of rows must exceed the number of columns.
 c) the number of rows must equal or exceed the number of columns
 d) the number of columns must equal or exceed the number of rows.
 e) none of the above
- 56. The decisions which are affect the business in the short run?
 - a. tactical solutions b. strategic decisions c. management decisions d. none
- 57. Which of the following methods is used only with the assignment problem?
 - a) the Hungarian method b) stepping-stone method c) MODI method d) Vogel's approximation method e) the simplex method
- 58. Monte Carlo simulation gets its name from which of the following?



- a. Model formulation b. Analysis c. Data collection d. Random-number assignment
- 59. Which of the following statistical methods are commonly used to analyze simulation results?
 - a. t-tests b. Regression analysis c. Analysis of variance d. All of the above
- 60. VAM stands for ----
 - a) Vogeal's Approximation Method b) Vogel's Approximate Method c) Vangel's Approximation Method d) Vogel's Approximation Method