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MANGEMENT	SCIENCE

1.	In a balanced transportation m	odel where supply equals demand,	
	a. all constraints are equalities		
	b. none of the constraints are equalities		
	c. all constraints are inequaliti		
	d. none of the constraints are	nequalities	
2	In a transportation problem, it	ems 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 sn	ecial case of the model.	
3.	a. maximum-flow		
	b. transportation		
	c. shortest-route		
	d. none of the above		
4	The linear programming mod	el for a transportation problem has constraints for supply	
4.	at each and	at each destination.	
	a. destination / source	at their desiring	
	b. source / destination		
	c. demand / source		
	d. source / demand		
5	An assignment problem is a	special form of transportation problem where all supply	
٥.	and demand values equal	pecial form	
	a. 0		
	b. 1		
	c. 2		
	d. 3		
6	The transchipment model is	an extension of the transportation model in which	
0.	intermediate transchipment n	oints are between the sources and destinations.	
	a. decreased	omis are	
	b. deleted		
	c. subtracted		
	d. added		
-			
/.	7. Inventory costs include		
	a. carrying .		
	b. ordering		
	c. shortage costs d. all of the above		
		ntory system a constant amount is ordered when	
8	 In a(an) inversion i	stermined level	
		Actimited teven	
	a. optional		
	b. economic		
	c. periodic		
	d. continuous	centary cyclem	
9	,. Lo (/ /	ventory system.	
	a, periodic		



	b. continuous	
	c. optimal	
	d. economic	
10.	In the linear programming formulation of the shortest route pro constraint for each node indicating	blem, there is one
	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	rotal oranen rengins
	a, selected	
	b. maximum	
	c. minimum	
	d. divided	
12		the total
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 pro	ect, it is a
	activity	
	a. completed	
	b. critical	
	c. conjugated	
	d. none of the above	
14.	A represents the beginning and end of activities	s, 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 tradition	onal 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	completed.
	b. minimum	
	c. longest	
	d. shortest	
18	Attributes of decision-making techniques include all of the foll	owing arcents
10.	a. payoffs	owing except:
	w. pwjorio	



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	
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	
 according to the due date of the d. all of the above 	item
23. Which of the following items is no	a part of the queuing system?
a. arrival rate	
b. service facility .	
c. waiting line	
d. activity flow	
 In a single-server queuing model, t system is calculated by dividing th 	the average number customers in the queuing e arrival rate by:
a. service rate	
b. service time	
c. service rate minus arrival rate	
 d. service rate plus arrival rate 	
	ider in analyzing a queuing system are
a. the service and arrival rate	and an analyzing a queating system are
b. the nature of the calling populati	ion
c. the queue discipline	
d. all of the above	
26. Queuing analysis is a deterministic	technique
a. True	technique.
b. False	
	mening and an all 1 days at the second
ontimization of a quanting system	ueuing system provide information rather than an
optimization of a queuing system. a. True	
b. False	
28. The applicability of forecasting me	thods depends on
a. the time frame of the forecast	
 b. the existence of patterns in the for 	precast



www.FirstRanker.com www.FirstRanker.com 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 In graphical solutions of linear inequalities, solution can be divided into a. one subset b. two subsets c. three subsets d. four subsets 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 toLinearProgrammingthatincludesanevaluationofrelativerisksanduncertaintiesinvariou salternativesofchoiceformanagementdecisions?

b) Stochastic Programming c) Both A and B

a) Probabilistic Programming

d) Linear Programming



40.	Whatenablesustodeterminetheearliestandthelatesttimesforeachoftheeventsandactivities andtherebyhelpsintheidentificationofthecriticalpath?
	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
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.

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?



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- 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

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