MULTIPLE CHOICE

1.	Replacement decision is very much common in this stage						
	a. Infant stage c. Yout	h					
	b. Old age d. In all	the above					
	ANS: B PTS: 1						
2.	2.						
	The replacement policy that is imposed on an item irrespe	ective of its failure is					
		ir spare replacement					
	b. Individual replacement d. Succe	essive replacement					
	ANS: A PTS: 1						
3.	3. Which of the following maintenance policy is not used in	the old age stage of a machine					
	- · · · · · · · · · · · · · · · · · · ·	acement					
		duled preventive maintenance					
	ANS: D PTS: 1						
4.	4. The following replacement model is said to be a probabili	stic model					
••	a. When money value does not change with c. When						
	•	and time is a discrete variable					
	b. When money value changes with time d. Preve	entive maintenance policy					
	ANS: D PTS: 1						
5.	5. A machine is replaced with an average running cost						
		e current period is greater than that e next period,					
		e current period is less than that of					
		period					
	ANS: D PTS: 1						
6.	6. Decreasing failure rate is usually observed in	_					
	a. infant c. old a	-					
	b. youth d. any t	ime in its life					
	ANS: A PTS: 1						

7.	The production manager will not recommend a. When large number of identical items is to be replaced	c.	For items that fail completely
	b. Low cost items are to be replaced, where record keeping is a problem	d.	Repairable items
	ANS: D PTS: 1		
8.	In replacement analysis the maintenance cost i	is a fi	
	a. timeb. resale value	c. d.	initial investment none of these
		u.	none of these
	ANS: A PTS: 1		
9.	Which of the following is the correct assumption change with time?	on fo	or replacement policy when money value does not
	a. No Capital cost	c.	Constant scrap value
	b. No scrap value	d.	Zero maintenance cost
	ANS: C PTS: 1		
10.	Which one of the following does not match the	e gro	up?
	a. Present Worth Factor (PWF)	c.	Depreciation value (DV)
	b. Discounted rate (DR)	d.	Mortality Tables (MT)
	ANS: D PTS: 1		
11.	Group replacement policy applies to		
	a. Irreparable items	c.	Items that fail partially
	b. Repairable items	d.	Items that fail completely & suddenly
	ANS: D PTS: 1		
12.	If a machine becomes old, then the failure rate	expe	
	a. Constant	C.	decreasing
	b. Increasing	a.	we cannot say
	ANS: B PTS: 1		
13.	Replacement is said to be necessary if		
	a. Failure rate is increasing	C.	Failure probability is increasing
	b. Failure cost is increasing	d.	Any of these
	ANS: D PTS: 1		
14.	In this stage, the machine operates at highest e	fficie	
	a. Infant stage	c.	e e e e e e e e e e e e e e e e e e e
	b. Youth stage	d.	None of these
	ANS: B PTS: 1		

15.	In retrogressive failures, the failure probability a. increases	c.	decreases
	b. remains constant	d.	none of these
	ANS: C PTS: 1		
16.	When money value changes with time at 10 %		· · · · · · · · · · · · · · · · · · ·
	a. 1 b. 0.909	c. d.	0.852 0.9
	ANS: A PTS: 1	u.	
17.	When money value changes with time at 20%,	the	discount factor for the 2nd year is
	a. 1	c.	0
	b. 0.833	d.	0.6955
	ANS: B PTS: 1		
18.	Which of the following replacement policies is	s con	sidered to be dynamic in nature?
	a. Time is a continuous variable and the money value does not change with time	c.	
	b. When money value does not change with time and time is a discrete variable	d.	When money value remains constant for some time and then goes on changing with time
	ANS: C PTS: 1		
19.	When the probability of failure reduces gradua	ılly,	the failure mode is said to be
	a. Regressive		Progressive
	b. Retrogressive	d.	Recursive
	ANS: B PTS: 1		
20.	is concerned with the determination		
	a. Probabilistic programmingb. Linear programming	c. d.	Search theory Replacement theory
		٠.	Troping officers (1901)
	ANS: D PTS: 1		
21.	Which cost of the following is irrelevant to rep		
	a. Purchase cost of the machine	c.	Maintenance cost of the machine Machine hour rate of the machine
	b. Operating cost of the machine	d.	Machine nour rate of the machine
	ANS: D PTS: 1		
22.	Group replacement policy is most suitable for		
	a. Trucks	c.	Street light bulbs
	b. Infant machines	d.	New cars
	ANS: C PTS: 1		

23.	Replacement of an item will become necessary	who	en
	a. an old item becomes too expensive to	c.	when your opponent changes his
	operate or maintainb. when your operator desires to work on a new machine	d.	machine in his unit when the company has surplus funds to spend
	ANS: A PTS: 1		
24.	The following is not discussed in group replacea. Failure Probabilityb. Cost of individual replacement	c.	nt policy Loss due to failure Present worth factor series
	ANS: D PTS: 1		
25.	It is assumed that maintenance cost mostly depa. calendar age b. manufacturing date ANS: C PTS: 1	ends c. d.	running age user's age
26.	Which of the following is correct? a. Re-order quantity in a fixed order-interval system equals EOQ b. Review period of the item is always kept higher than its lead time ANS: C PTS: 1	c. d.	Re-order level of an item is always more than its minimum stock Buffer stock is the total stock kept to meet the demand during lead time
27.	The group replacement policy is suitable for id	lenti	cal low cost items which are likely to
	a. fail suddenly b. fail completely and suddenly ANS: C PTS: 1	c. d.	fail over a period of time be progressive and retrogressive
28.	A game is said to be fair if a. lower and upper values are zero b. only lower value to be zero	c. d.	only upper value to be zero lower and upper values are not equal to zero
	ANS: A PTS: 1		
29.	Which of the following is not a part of holdinga. Rent for storage spaceb. Extra expenses for an overnight express mail.	c.	·
	ANS: B PTS: 1		
30.	The area bounded by all the given constraints a. feasible region b. basic solution	is cal c. d.	lled non feasible region optimum basic feasible solution
	ANS: A PTS: 1		

31.	When D=18000, holding cost=Rs.1.20, set-	up cost=	=Rs.400 ,EOQ =
	a. 3465	c.	3500
	b. 3750	d.	4000
	ANS: A PTS: 1		
32.	Given arrival rate = 15/hr, service rate = 20	/hr, the	value of traffic intensity is
	a. 3/4		3/5
	b. 4/3	d.	4/5
	ANS: A PTS: 1		
33.	An activity is critical if its	float is	s zero
	a. total		independent
	b. free		interference
	ANS: A PTS: 1		
34.	is employed in constructi	on and l	nucin oca nvohloma
34.		on and t	_
	a. Queueb. Replacement	d.	PERT
	b. Replacement	u.	LKI
	ANS: D PTS: 1		
35.	Operations Research techniques help to find	d	solution.
	a. Feasible solution	c.	Optimal solution
	b. Infeasible solution	d.	None of these
	ANS: C PTS: 1		
36.	Operations Research Techniques involves .		approach.
	a. Team approach		Individual approach
	b. Critical approach		None of these
	ANS: C PTS: 1		Trong of Misse
37.	An activity which must be completed befor is called	e comm	encement of one or more other activities
	a. Successor activity	c.	Dummy activity
	b. Predecessor activity	d.	None of these
	ANS: B PTS: 1		1,010 01 11100
38.	An activity which does not consume either	resource	e or time is called
	a. Predecessor activity	c.	Dummy activity
	b. Successor activity	d.	Terminal activity
	ANS: C PTS: 1		
30	Decision making under certainty refers to		situation
37.	a. Deterministic		Competitive
	b. Probabilistic		None of these
		u.	Trone of these
	$ANS \cdot A$ $PTS \cdot 1$		

40.	is known as father of game theory.				
	a. Von Neumann		George b Dantzig		
	b. A K Erlang	d.	Arnoff		
	ANS: A PTS: 1				
41.	Which of the following is an assumption of	game tl	neory?		
	a. The players act rationally and intelligently	c.	The players attempt to maximise gains or minimises losses		
	b. Each payer has a finite set of possible courses of action	d.	All of the above		
	ANS: D PTS: 1				
42.	Each participant of the game is called				
	a. Strategist	c.	Player		
	b. Winner	d.	Loser		
	ANS: C PTS: 1				
43.	The outcome of a game is known as				
	a. Profit	c.	Pay off		
	b. Loss	d.	None		
	ANS: C PTS: 1				
44.	A matrix which shows the gains and losses is called	resultin	g from moves and counter moves is		
	a. Cost matrix	c.	Both a and b		
	b. Pay off matrix	d.	None of these		
	ANS: B PTS: 1				
45.	When all the players of the game follow the	ir optin	nal strategies, then the expected pay off		
	of the game is called		77.1		
	a. Gain of the game		Value of the game None of these		
	b. Loss of the game	a.	None of these		
	ANS: C PTS: 1				
46.	A game is said to be fair if the value of the g				
	a. One	C.	Three		
	b. Two	d.	Zero		
	ANS: D PTS: 1				
47.	The position in the pay off matrix where the	maxim	nin coincides with the minimax.		
	a. Saddle point	c.	Pivot point		
	b. Break even point	d.	None of the above		
	ANS: A PTS: 1				

48. In agame the amounts won by all winners together is equal to amounts lost by all losers together.			rinners together is equal to the sum of the
	a. Non-zero sum game	c.	Rectangular game
	b. Zero sum game	d.	None of these
	ANS: B PTS: 1		
40	Which of the following mathed is used to selv		arad atmata arr muchlama.
49.	Which of the following method is used to solv a. Probability method		Linear Programming method
	b. Graphic method	d.	
	o. Grapine memou	u.	All of the above
	ANS: D PTS: 1		
50.	A queue is formed when the demand for a ser	vice:	
	a. Exceeds the capacity to provide that service	c.	a or b
	b. Is less than the capacity to provide that service	d.	None of these
	ANS: A PTS: 1		
51.	Queuing theory is also termed as		
	a. Game theory		Waiting line theory
	b. Replacement theory		None of these
	ANS: C PTS: 1		
52	In queuing theory, refers to those	se wa	iting in a queue or receiving service
32.	a. Service provider		Both a and b
	b. Customer		None of these
			1,010 01 01000
	ANS: B PTS: 1		
53.	In queuing theory, is a person b	y wh	om service is rendered.
	a. Customer	c.	a or b
	b. Server	d.	none of these
	ANS: B PTS: 1		
54.	In waiting line theory, number of customers w	aitin	g in the queue is referred to as
•	a. Traffic intensity	c.	Service pattern
	b. Queuing system	d.	Queue length
	ANS: D PTS: 1		
55.	Number of customers in the queue per unit of	time	is called
	a. Queuing system	c.	Average length of queue
	b. Length of queue	d.	None of these
	ANS: C PTS: 1		
	110. 1		

	a. Idle periodb. Average length of queue	c.	Traffic intensity
	ANS: C PTS: 1		
57.	Commonly assumed probability distribution of a. Poisson distribution b. Binomial distribution	c.	
	ANS: A PTS: 1		
58.	a customer's behaviour of leaving the queue verto lack of time or space is called		G 19
	b. Reneging	d.	
	ANS: D PTS: 1		
59.	Commonly assumed probability distribution of a. Poisson distribution b. Exponential distribution	f ser c. d.	Erlang distribution
	ANS: D PTS: 1		
60.	A customer's behaviour of leaving the queue a. Jockying b. Reneging	due to c. d.	Collusion
	ANS: B PTS: 1		
61.	A customer's behaviour of jumping from onea. Jockyingb. Reneging		Collusion
			Buking
	ANS: A PTS: 1		Buiking
62.			
62.	ANS: A PTS: 1 In queuing theory, stands for a. μ	r me: c.	an arrival rate of customers.
62. 63.	ANS: A PTS: 1 In queuing theory, stands for a. μ b. λ ANS: B PTS: 1	r me c. d.	an arrival rate of customers. t none of these

	4. Customer behavior in which the customer moves from one the queue to another in a multiple chann situation is			
	a. balking	c.	jockeying	
	b. reneging	d.	alternating	
	ANS: C PTS: 1			
65.	Which of the following characteristics apply to	o the	queuing system	
	a. customer population	c.		
	b. arrival process	d.	neither (a) nor (b)	
	ANS: C PTS: 1			
66.	Which of the following is not a key operating	chara	acteristic for a queuing system	
	a. percent idle time	c.		
	b. average time spent waiting in the system and queue	d.	none of the above	
	ANS: D PTS: 1			
67.	\mathcal{L}_{1}	te wł	nen	
	a. arrivals are independent of each other		sen/ice rate is faster than the arrival rate	
	b. the capacity of the system is infinite	d.	all of the above	
	ANS: A PTS: 1			
68.	Which of the cost estimates and performance a queuing system	neas	sures are not used for economic analysis of a	
	a. cost per server per unit of time	c.	the average number of customers in the system	
	b. cost per unit of time for a customer waiting in the system	d.	average waiting time of customers in the system	
	ANS: D PTS: 1			
69.	A calling population is considered to be infini-	te wł		
	a. all customers arrive at once	c.	arrivals are dependent upon each other	
	b. arrivals are independent of each other	d.	all of the above	
	ANS: B PTS: 1			
70.	The cost of providing service in a queuing sys	tem (decreases with	
	a. decreased average waiting time in the	c.	increased arrival rate	
	queue b. decreased arrival rate	d.	none of the above	
	ANS: D PTS: 1			
71	Carvina machanism in a guarring system is al-	root-	prized by	
71.	Service mechanism in a queuing system is cha a. server's behavior	гасце с.	customers in the system	
	b. customer's behavior	d.	all of the above	

72	Which	of the	followin	g relations	hins is	not true
14.	VV IIICII	or the	10110 W III	g icianons	mps is	mot nuc

$$w_s=w_q+rac{1}{\mu}$$

$$_{ ext{c.}}$$
 $L_s = L_q + rac{1}{\lambda}$ $L_q = \lambda w_s$

$$L_s = \lambda w_s$$

$$_{\scriptscriptstyle
m A}$$
 $L_q=\lambda w_s$

ANS: C

PTS: 1

73. The expected length of the non-empty queue is given by

$$L = \mu/(\mu - \lambda)$$

$$L = \lambda/(\mu - \lambda)$$

$$L \, = s \mu/(s \mu - \lambda)$$

 $L \,=\, \lambda/(\mu-\lambda) \ \lambda/(\mu-\lambda) \,+ \left(rac{1}{\mu}
ight)$

ANS: A

PTS: 1

74. As per queue discipline, the following is not a negative behavior of a customer:

a. Balking

Boarding

b. Reneging

Collusion.

ANS: C

PTS: 1

75. The expediting or follow up function in production control is an example of

LIFO

SIRO c.

b. FIFO

Preemptive

ANS: D

PTS: 1

76. In M/M/S: N/FIFO the following does not apply

Poisson arrival

Exponential service

Limited service

Single server

ANS: D

PTS: 1

77. The system of loading and unloading of goods usually follows:

LIFO

c. SIRO

b. FIFO

d. SBP

ANS: A

PTS: 1

78. If the operating characteristics of a queue are dependent on time, then is said to be:

Transient state

Steady-state

Busy state

d. Explosive state

ANS: A

PTS: 1

79. A person who leaves the queue by losing his patience to wait is said to be

Reneging

Jockeying

Balking b.

d. Collusion.

ANS: A

PTS: 1

80.	The characteristics of a queuing model are inda. Number of service stationsb. Limit of the length of the queue	epen c. d.	Service Pattern
	ANS: D PTS: 1		
81.	The unit of traffic intensity is: a. Poisson b. Markow ANS: C PTS: 1	c. d.	Erlang Kendall
82.	The queue discipline in stack of plates is: a. LIFO b. SIRO ANS: A PTS: 1	c. d.	Non-Pre-Emptive FIFO
83.	Office filing system follows: a. LIFO b. FIFO ANS: A PTS: 1	c. d.	SIRO SBP
84.	SIRO discipline is generally found in: a. Loading and unloading b. Office filing	c. d.	Lottery draw Train arrivals at a platform
85.	ANS: C PTS: 1	. <u>-</u>	
	$(M/M/1), \ \rho = \frac{\lambda}{\mu}$ For a simple queue a. Poisson busy period b. Random factor		s known as Traffic intensity Exponential service factor
	ANS: C PTS: 1		
86.	A service system, where the customer is statio a. Buffet Meals b. Outpatient at a clinic ANS: C PTS: 1	nary c. d.	and server is moving is found with: A person attending the breakdowns of heavy machines Vehicle at Petrol bunk
87.	This department is responsible for the develop a. Railway station b. Municipal office ANS: C PTS: 1	oment c. d.	of queuing theory: Telephone department Health department

88.	If the number of arrivals during a given time p already occurred prior to the beginning of thedistribution.		
	a. Erlang b. Poisson	c. d.	Exponential Normal
	ANS: B PTS: 1		
89.	When the operating characteristics of the queue. a. Steady-state b. Explosive state	ie sys c. d.	-
	ANS: C PTS: 1		
90.	The distribution of arrivals in a queuing systema. Death Process b. Pure Birth Process ANS: B PTS: 1	n car c. d.	n be considered as a: Pure live process Sick process
91.	Queuing models measure the effect of:		
91.	a. Random arrivals	c.	Effect of uncertainty on the behavior of the queuing system
	b. Random service	d.	Length of queue
	ANS: C PTS: 1		
92.	Traffic intensity is given by a. Mean arrival rate/Mean service rate b. $\lambda \times \mu$	c. d.	μ / λ Number present in the queue / Number served
	ANS: A PTS: 1		
93.	In queue designation A/B/S: (d/f), what does a. Arrival Pattern b. Service Pattern	S rep c. d.	
	ANS: A PTS: 1		
94.	priority queue discipline may be classified as a. Finite or infinite b. Limited & unlimited	c. d.	Pre-emptive or non-pre-emptive All of the above
	ANS: C PTS: 1		
95.	a. Arrivals are independent of each otherb. Capacity of the system is infinite	e who	
	ANS: A PTS: 1		

has

96. service mechanism in a queing system is characterized by			· · · · · ·
	a. Server's behaviorb. Customer's behavior	c. d.	Customers in the system All of the above
	ANS: A PTS: 1		
97.	probabilities of occurance of any state are a. Collectively exhaustive	c.	Representing one of the finite numbers of
	b. Mutually exclusive	d.	states of nature in the system All of the above
	ANS: D PTS: 1		
98	In a matrix of transission probability the eleme	entai	i where i = i is a
70.			-
	a. Gain	c.	
	b. Loss	d.	None of the above
	ANS: C PTS: 1		
99.			
	a. the sum of losses to one player is equal to the sum of gains to other	c.	no any player gains or losses
	b. the sum of losses to one player is not equal to the sum of gains to other	d.	none of these
	ANS: A PTS: 1		
100.			
	a. number of players	c.	\mathcal{E}
	b. sum of all payoffs	d.	all of these
	ANS: D PTS: 1		
101.	A game is said to be fair if		
	a. both upper and lower values of the game are the same and zero	c.	upper value is more than the lower value of the game
	b. upper and lower values of the game are	d.	none of these
	not equal		
	ANS: A PTS: 1		
102. What happens when maximin and minimax values of the game are same?			-
	a. no solution exists	C.	saddle point exists
	b. solution is mixed	d.	none of these
	ANS: C PTS: 1		
103.	A mixed strategy game can be solved by		
	a. algebraic method	c.	graphical method
	b. matrix method	d.	all of these
	ANS: D PTS: 1		

104.	The size of the payoff matrix of a game can be reduced by using the principle of				
	a. game inversion	c.	dominance		
	b. rotation reduction	d.	game transpose		
	ANS: C PTS: 1				
105.	The payoff value for which each play	er in a game a	lways selects the same strategy is called the		
	a. saddle point	c.	both (a) and (b)		
	b. equilibrium point	d.	none of these		
	ANS: A PTS: 1				
106.	Games which involve more than two players are called				
	a. conflicting games	c.	N-person games		
	b. negotiable games	d.	all of these		
	ANS: C PTS: 1				
107.	When the sum of gains of one player	is equal to the	sum of losses to another player in a game, this		
	situation is known as				
	a. biased game	c.	fair game		
	b. zero-sum game	d.	all of these		
	ANS: B PTS: 1				
100	TTT 111				
108.			f a game, the value of the game is then found by		
	a. reducing the size of the game to a	apply the c.	finding the average of all the values of		
	algebraic method	1	the payoff matrix		
	b. solving any one 2x2 subgame	d.	none of these		
	ANS: A PTS: 1				
109	A saddle point exists when				
10).	a. maximin value = maximax value	c.	minimax value = maximin value		
	b. minimax value = minimum value		none of these		
	ANS: C PTS: 1				
110.	In a pure strategy game				
	a. any strategy may be selected arbi	trarily c.	both players select their optimal strategy		
	b. a particular strategy is selected by player	y each d.	none of these		
	• •				
	ANS: C PTS: 1				
111.	In a mixed strategy game				
	a. no saddle point exists	c.	each player always selects the same		
			strategy		
	b. each player selects the same strategy without considering other player's choice		all of these		
	ANS: A PTS: 1				

112.	Game theory is the study of a. selecting optimal strategies b. resolving conflict between play	c. yers d.	giving equal outcome to participants none of these
	ANS: A PTS: 1		
113.	If the value of the game is zero, the a. Fair strategy b. Pure strategy	on the game is kn c. d.	_
	ANS: C PTS: 1		
114.	The games with saddle points area. Probabilistic in nature,b. Normative in nature	c. d.	Stochastic in nature, Deterministic in nature.
	ANS: D PTS: 1		
115.	When the game is played on a pred game, then the game is said to be a. Pure strategy game	etermined cours	<i>C</i> , <i>C</i>
	b. Fair strategy game	d.	Unsteady game
	ANS: A PTS: 1		
116.	If the losses of player A are the gin a. Fair game b. Unfair game	c.	
	ANS: D PTS: 1		
117.	 Identify the wrong statement: a. A game without saddle point is probabilistic b. Game with saddle point will has strategies 		Game with saddle point cannot be solved by dominance rule Game without saddle point uses mixed strategies
	ANS: C PTS: 1		
118.	If a two-person zero-sum game is contained a. Number of variables must be to	wo only c.	If row player represents Primal problem, Column player represent Dual problem
	b. There will be no objective fund	ction d.	The number of constraints is two only
	ANS: C PTS: 1		
119.	In case, there is no saddle point in a a. Deterministic game b. Fair game	a game then the c. d.	game is Mixed srategy game Multiplayer game
	ANS: C PTS: 1		

120.	A competitive situation is known asa. Competitionb. Marketing	c. d.	Game None of these		
	ANS: C PTS: 1				
121.	One of the assumptions in the game theory is a. All players act rationally and intelligently	c.	Loser acts intelligently		
	b. The winner alone acts rationally	d.	Both the players believe luck		
	ANS: A PTS: 1				
122.	A play is played when a. The manager gives green signal		The player who comes to the place first		
	b. Each player chooses one of his courses of action simultaneously	d.	says that he will start the game When the latecomer says that he starts the game		
	ANS: B PTS: 1				
123.	The list of courses of action with each player. a. is finite b. is infinite		three only none of these		
	ANS: A PTS: 1	u.	none of these		
124.	A game involving 'n' persons is known as: a. Multi member game b. Multi player game	c. d.	n - person game not a game		
	ANS: C PTS: 1				
125.	Theory of games and economic behavior is pul a. John Von Neumann and Morgenstern b. John Flood	blish c. d.	ed by: Bellman and Neumann Mr. Erlang		
	ANS: A PTS: 1				
126.	In queuing system, refers to those waiting in a queue or receiving service a. Service provider c. Customer				
	b. Client	d.	Patron		
	ANS: C PTS: 1				
127.	A queue is formed when the demand for a serva. Exceeds the capacity to provide that	rice c.	Is equal to the capacity to provide that		
	service b. Is less than the capacity to provide that service	d.	service There is no relation of service capacity and queue		
	ANS: A PTS: 1				

128.	a. Poisson distributionb. Binomial distribution	c.			
	ANS: A PTS: 1	u.	Dem distribution		
129.	Commonly assumed probability distribution of		-		
	a. Poisson distribution		Normal distribution		
	b. Exponential distribution	d.	Beta distribution		
	ANS: B PTS: 1				
130.	A customer's behavior of jumping from one queue to another is called				
	a. Jockeying		Collusion		
	b. Reneging	d.	Balking		
	ANS: A PTS: 1				
131.			methods to arrive at the optimal solutions to		
	the problems. a. Economical	0	Artistic		
	b. Scientific	c. d.	Rational		
		u.	Kationai		
	ANS: B PTS: 1				
132.	In operations research, the are prepared for situations.				
	a. Mathematical models	c.	Physical models		
	b. Diagrammatic models	d.	Iconic models		
	ANS: A PTS: 1				
133.	OR techniques help the directing authority in like	optin	num allocation of various limited resources		
	a. Men and machine	c.	Material and time		
	b. Money	d.	All of the options		
	ANS: D PTS: 1				
134.	Operation research approach is				
	a. Multi-disciplinary	c.	Intuitive		
	b. Artificial	d.	Limited to some fields		
	ANS: A PTS: 1				
135.	Operation research analysts do not				
	a. Predict future operation	c.	Collect the relevant data		
	b. Build models	d.	Recommend decision and accept		
	ANS: A PTS: 1				

136. Which technique is used in finding a solution for optimizing a given objective, such maximization or cost reduction under certain constraints?				
	a. Queuing Theory		c.	
	b. Network Analysis		d.	
	ANS: C PTS:	1		
137.	Operations Research is a v	ery powerful tool for	or	
	a. Operations		c.	Decision making
	b. Research		d.	Simulation
	ANS: C PTS:	1		
138.	Which of the following is not an inventory?			
	a. Machines		c.	Finished products
	b. Raw material		d.	Consumable tools
	ANS: A PTS:	1		
139.	The following costs are use	ually involved in in	vento	•
	a. Cost of ordering		c.	$\boldsymbol{\mathcal{E}}$
	b. Carrying cost		d.	Machining cost
	ANS: D PTS:	1		
140.	The cost of insurance and t	axes are included in	n	
1 10.	a. Cost of ordering	anos are meradean	c.	Inventory carrying cost
	b. Set up cost		d.	Cost of shortages
	ANS: C PTS:	1		C
141.	'Buffer stock' is the level of stock			
	a. Half of the actual stoc	k	c.	Minimum stock level below which actual
	1 4 11 1 1 1	1 11		stock should not fall
	b. At which the ordering start	process should	d.	Maximum stock in inventory
	ANS: C PTS:	1		
142.	The time period between p	lacing an order its r	eceir	at in stock is known as
172.	a. Lead time	idenig all order its i	c.	Shortage time
	b. Carrying time		d.	Over time
			а.	5 . C. MIII
	ANS: A PTS:	1		