Department of MBA

MBA Mid Question Bank (R22 Regulation)

Academic Year: 2024-25

Semester: III

Subject Name: PRODUCTION & OPERATIONS MANAGEMENT (22MB301PC)

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PART-A

Q.No	Questions	Marks	BL	CO	Unit No				
1	Define POM.					L1	CO1	UNIT-I	
2	Elaborate Conc	2M	L2	CO1	UNIT-I				
3	Discuss about S	2M	L2	CO1	UNIT-I				
4	Explain World Class Manufacturing.					L2	CO1	UNIT-I	
5	Explain any two	o Functional	l Sub System	ns of	2M	L2	CO1	UNIT-I	
	Organization.								
6	Role of Govern	ment in Sus	tainable Ope	erations.	2M	L3	CO1	UNIT-I	
7	Write about Ne	w Product I	Development		2M	L3	CO2	UNIT-II	
8	Write in detail a	about Capac	ity Planning		2M	L3	CO2	UNIT-II	
9	Discuss about V	/alue Analy	sis.		2M	L2	CO2	UNIT-II	
10	Elaborate Lean	Production	System.		2 M	L2	CO2	UNIT-II	
11	State the Respo	nsibilities o	f <mark>Process</mark> Pla	inning	2 M	L1	CO2	UNIT-II	
	Engineer.								
12	Outline the Imp	ortance of I	Pilot Plant		2M	L1	CO2	UNIT-II	
	Development.			A 1	1				
13	Explain Plant L	ocation.			2M	L2	CO3	UNIT-III	
14	Write about Pla	nt Layout.	And and a second second		2M	L3	CO3	UNIT-III	
15	Explain about p	2M	L2	CO3	UNIT-III				
			UPTC) MID-I					
16	Identify the adv	antages of g	group techno	logy	2M	L2	CO3	UNIT-III	
	layout.	1							
17	Write about Sin	igle Technol	logy Layout.		2M	L3	CO3	UNIT-III	
18	From the follow	ving data ca	Iculate Break	k Even	2M	L4	CO3	UNIT-III	
	Point expressed in terms of units.								
	Fixed	Rupees	Variable	Rupees					
	Expenses Demociation	1.00.000	Expenses	$\mathbf{D} = 2/$					
	Depreciation	1,00,000	Waterials	RS 3/- Dor unit					
	Salarias	1.00.000 Labour	Labour	$P_{c} 2/$					
	Salaries	1,00,000	Labour	Per unit					
	Selling Price Pci unit								
				Per unit					
19	Write about sch	2M	L3	CO4	UNIT-IV				
20	Explain in brief	2M	L5	CO4	UNIT-IV				
21	Write about her	2M	L3	CO4	UNIT-IV				
22	Write quality co	2M	L3	CO4	UNIT-IV				
23	State Types of S	2M	 L1	CO4	UNIT-IV				
24	Explain the dispatch of priority dispatching rules					L2	CO4	UNIT-IV	

25	A company purchases raw material at cost of 16 per unit the annual demand is 25000 per unit the carrying cost per unit is 6.40 and cost of placing order is Rs. 32.	2M	L4	CO5	UNIT-V
26	What is VED analysis and ABC analysis?	2 M	L1	CO5	UNIT-V
27	CalculateEOQ and number oforders to be placedin a year quarterlyconsumption of material. 4000 units cost of placing one order is 100.Cost per unit is Rs.80 cost of storage and carrying costis 8% of inventory.	2M	L4	CO5	UNIT-V
28	Explain Green Purchasing.	2M	L2	CO5	UNIT-V
29	Discuss about E- Procurement.	2M	L2	CO5	UNIT-V
30	Write in short about material management.	2M	L3	CO5	UNIT-V

PART-B

Q.No	Questions	Marks	BL	CO	Unit No
1	Explain the nature and scope of Production & Operations Management.	4M	L2	CO1	UNIT-I
2	Write about Functional Subsystems Of Organization.	4M	L3	CO1	UNIT-I
3	Elaborate Concept of Production, Differentiate Production V's Productivity.	4M	L2	CO1	UNIT-I
4	Explain about Types of Production Systems? With appropriate examples.	4M	L2	CO1	UNIT-I
5	Discuss about Quality Control and write its objectives in brief.	4M	L2	CO1	UNIT-I
6	Write about Operations Management along with its Objectives.	4M	L3	CO1	UNIT-I
7	What is Industry 4.0? Write the Definition and its Development.	8M	L1	CO1	UNIT-I
8	Explain Sustainable Operations Management and its importance.	8M	L2	CO1	UNIT-I
9	Define Flow or Mass Production? Explain its Merits and De merits.	8M	L1	CO1	UNIT-I
10	Write about the concept of New Product Development and its Stages.	4M	L3	CO2	UNIT-II
11	Elaborate Product Design along with steps and Phases.	4M	L2	CO2	UNIT-II
12	Discuss about Product Design along with its Benefits and Key Elements.	4M	L2	CO2	UNIT-II
13	Briefly discuss about Process Research Steps.	4M	L5	CO2	UNIT-II
14	Discuss about Pilot Plant Development along with purpose, steps and benefits.	4M	L2	CO2	UNIT-II
15	Write Benefits of Effective Process Planning and Design.	4M	L3	CO2	UNIT-II
16	Differentiate between Value Analysis and Value Engineering along with steps.	8M	L4	CO2	UNIT-II
17	Differentiate between Product Design and Process Design.	8M	L4	CO2	UNIT-II
18	Explain the concept of Process Planning and Design and Selection of Process.	8M	L5	CO2	UNIT-II
19	Elaborate Plant Location. Explain Factors Influencing Plant Location.	4M	L2	CO3	UNIT-III
20	Write in Brief about Break Even Analysis with an example problem	4M	L3	CO3	UNIT-III

21	Explain Single Facility Location Problem.	4 M	L2	CO3	UNIT-III
22	Explain advantages and limitations of group technology	4M	L2	CO3	UNIT-III
	layout.				
23	Write about Plant Layout along with its Classification of	4M	L3	CO3	UNIT-III
	Layout.				
	UPTO MID-I	1			
24	Explain about layout design procedures.	4M	L2	CO3	UNIT-III
25	How do Facility location decisions differ for Service	4 M	L1	CO3	UNIT-III
26	facilities and manufacturing plants?	43.4	1.2	CO2	
26	Discuss Break Even Chart Graphically.			CO3	UNIT III
27	Elaborata Plant Layout State objectives of a good plant layout.	41VI 4M		CO3	
20	Layout	4111			0111-111
29	Solve the following through two job m machine schedule	4M	L5	CO4	UNIT-IV
	method.	••••			
	JOB-1 Sequence A B C D E				
	Time(hr) 3 4 2 6 2				
	JOB-2 Sequence B C A D E				
	Time(hr) 5 4 3 2 6				
	Solve the following through two job m machine scheduling.	4M	L5	CO4	UNIT-IV
	JOB-1 Sequence A B C D E				
20	Time(hr) 2 3 4 6 2				
30	JOB-2 Sequence C A D E B				
	Time(hr) 4 5 3 2 6				
31	Find the sequence that minimizes the total elapsed time (in	4M	L4	CO4	UNIT-IV
	hrs) required to complete the following tasks on two				
	machines.				
	ACUINE 1 D 5 4 0 6 9 7				
	MACHINE-1 2 5 4 9 0 8 7 MACHINE-2 6 8 7 4 3 9 3	NS .			
32	Determine the sequence that will minimize the total elansed	4 M	I.A	CO4	UNIT-IV
52	time and also find the idle time.	-11/1			
	JOB 1 2 3 4 5 6				
	MACHINE-A 3 12 5 2 9 11				
	MACHINE-B 8 6 4 6 3 1				
	MACHINE-C 13 14 9 12 8 13				
33	Find the total elapsed time and idle time for both machines.	4M	L4	CO4	UNIT-IV
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				
24	Find the acquered that minimizes the total alares I time (47.4	T 4		
54	Find the sequence that minimizes the total elapsed time (in hrs.) required to complete thefollowing tasks on three	4111		004	UNIT-IV
	machines				
	JOBS 1 2 3 4 5				
	MACHINE-A 3 8 7 5 2				
	MACHINE-B 3 4 2 1 5				
	MACHINE-C 5 8 10 7 6				
35	Explain Palmer's Heuristic Method with an Example.	8M	L2	CO4	UNIT-IV
36	What is the Concept of Control Charts for Variables? How	8 M	L1	CO4	UNIT-IV

	will you construct them? Illustrate.										
37	From the following data Construct a fraction defective Chart.							8 M	L5	CO4	
	2	3	4	5	6	7	8				UNIT-IV
	32	50	50	32	80	50	50				
	3	3	2	1	4	2	0				
38	The follo	wing p	ourchases an	d issues	where r	nade in a	· · · ·	4M	L4	CO5	UNIT-V
	company.										
	DATE		PARTICUI	LARS	UNITS	RATE	7				
	1-8-200)6	Purchases	-	300	15	1				
	6-8-2006 Issues 200 -										
	10-8-20	06	Purchases	4	400	20	1				
	15-8-20	06	Issues	4	450	-	1				
	22-8-20	06	Purchases	4	400	25	1				
	25-8-20	06	Issues		200	-	1				
	28-8-20	06	Purchases		300	23					
	From the	above	calculate FI	FO, LII	FO, sim	ole averag	ge and				
	weighted	averag	ge.	,	<i>,</i> 1						
39	Ram indu	ustry ne	eeds 5,400 u	nits yea	r of a bo	ought out		4 M	L4	CO5	UNIT-V
	compone	nt whic	ch will be us	sed in its	s main p	roduct. T	he				
	ordering	cost is	Rs. 250/- Pe	er order	and the	Carrying	cost Per				
	unit per y	ear is l	Rs. 30/ Fin	d out E	co <mark>nomic</mark>	<mark>: Orde</mark> r Q	uantity,				
	number of	of order	rs per year, t	ime bet	ween su	ccessive	orders.				
40	Write in	brief at	oout integrat	ed mate	erial mar	nagement	along	4M	L3	CO5	UNIT-V
	with its c	ompon	ents.								
41	Write in	Write in detail about e-Procurement and green purchasing 4M							L3	CO5	UNIT-V
- 10	and store	manag	gement.					(3.6		607	
42	Write in	short al	bout VED, H	'SN, SL	DE, and D	XYZ Ana	llysis.	4M	L3	C05	UNIT-V
43	I ne folio	wing d	ata are avai	lable on	consum	iption pat	tern of	41/1	L4		UNII-V
	Creatin m	aterials	s in an organ	nization			[anthly as	N3.			
	INO. OF Items INFOILING (units)										
	1 (units)										
	$ \frac{1}{2} \frac{40}{20} \frac{3000}{270} $										
	20 $2/0$ 1700 1700										
			20	<u>)0</u>		1	500				
	5		61)		2	40				
	6		2(<u></u>		2	500				
	7		24	50		2.	000				
	8	<u>/ 250 2000</u> <u>8 30 170</u>									
	Find out A B C Items when :										
	A Items account for 85% of consumption value										
	B Items account for 10% of consumption value										
	C) Items account for 5% of consumption value.										
44	What is meant by Materials Requirement Planning (MPD)?							8M	L1	CO5	UNIT-V
	How is it related to Just in Time (IIT)						UTAT				
45	List the different Tasks under Stores Managements						8M	L4	CO5	UNIT-V	
46	What is r	neant h	by the term '	Service	level'?	Generally	/	8M	L1	CO5	UNIT-V
	speaking	, how is	s service lev	el relate	ed to the	amount	of				
	Safety stock held?										