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# **DEPARTMENT OF MANAGEMENT STUDIES**

# **QUESTION BANK**

**I SEMESTER** 

# **1915206 – OPERATIONS MANAGEMENT**

Regulation – 2019

Academic Year 2019 – 2020



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# DEPARTMENT OF MANAGEMENT STUDIES **QUESTION BANK**

#### SUBJECT : 1915206 - OPERATIONS MANAGEMENT

#### SEM / YEAR: 2<sup>nd</sup> Semester / 1<sup>st</sup> Year

#### **UNIT - I - INTRODUCTION TO OPERATIONS MANAGEMENT**

SYLLABUS: Production – Meaning, Nature, Types. Operations Management – Nature, Importance, functions, challenges, current priorities, recent trends; Operations Strategy - Strategic fit, framework; Supply Chain Management

	PART- A							
S. No	QUESTIONS	BT LEVEL	COMPETENCE					
1	Define production.	Level 1	Remembering					
2	Summarize the types of Production.	Level 2	Understanding					
3	Identify the major components of a production system.	Level 3	Applying					
4	What conclusion can you draw on "Operation management"?	Level 4	Analyzing					
5	Discuss the objectives of operation management.	Level 5	Evaluating					
6	Interpret the bottleneck in operations management.	Level 6	Creating					
7	How would you describe the functions of Operations Management?	Level 1	Remembering					
8	Outline the importance of Operations management.	Level 2	Understanding					
9	Relate the recent trends in Operations Management.	Level 3	Applying					
10	List the 5 steps in framework of operations strategy.	Level 4	Analyzing					
11	What conclusions can you draw on Continuous production system?	Level 5	Evaluating					
12	Determine the framework of operations strategy.	Level 6	Creating					
13	What do you mean by Value Added Services?	Level 1	Remembering					
14	What is meant by Strategic Fit?	Level 2	Understanding					
15	How would you show your understanding on developing a manufacturing strategy?	Level 3	Applying					
16	Examine the objectives of Supply chain management.	Level 4	Analysing					
17	Can you list the process of supply chain?	Level 1	Remembering					
18	Can you explain "production function"?	Level 2	Understanding					
19	How would you explain Supply Chain Management?	Level 1	Remembering					
20	Tell the Cycle view of supply chain process.	Level 1	Remembering					



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	PART- B							
S. No.	QUESTIONS	BT LEVEL	COMPETENCE					
1	What is Production? Explain the types of Production system.	Level 1	Remembering					
2	Summarize the nature of Production in detail.	Level 2	Understanding					
3	Write the nature and importance of operations management.	Level 3	Applying					
4	List the scope and objectives of operations management.	Level 4	Analysing					
5	Discuss the role of operations in strategic management.	Level 5	Evaluating					
6	How could you determine the objectives and historical development of operations management?	Level 6	Creating					
7	How would you describe the functions of Operations Management?	Level 1	Remembering					
8	Demonstrate the recent trends in production and operations management.	Level 2	Understanding					
9	Identify the challenges and current priorities for Operations Management.	Level 3	Applying					
10	What inference can you make in Strategy Fit along with framework of operations strategy?	Level 4	Analysing					
11	What is SCM? Explain flow in SCM and process view of supply chain in detail.	Level 1	Remembering					
12	Outline the objectives and Functions of supply chain management.	Level 2	Understanding					
13	In today's global environment scenario the nature of operations management in any country is similar to International Operations Management – Comment.		Analysing					
14	How would you elaborate the concept of SCM?	Level 1	Remembering					
		201011						

	PART - C							
S.No.	Questions							
1	Construct the following: • Customer order cycle • Replenishment cycle • Manufacturing cycle							
	<ul> <li>Procurement cycle</li> <li>Pull concept</li> <li>Push concept</li> </ul>							
2	Assume you are running a Detergent manufacturing company. Design a supply chain network for effective distribution of Detergents in the markets.							
3	How would you show your understanding on operations strategy in manufacturing and services?							
4	Can you give a detailed outline of the Supply Chain Process in FMCG industry?							



#### UNIT - II FORECASTING, CAPACITY ANF FACILITY DESIGN

**SYLLABUS**: Demand Forecasting – Need, Types, Objectives and Steps. Overview of Qualitative and Quantitative methods. Capacity Planning – Long range, Types, Developing capacity alternatives. Overview of sales and operations planning. Overview of MRP, MRP II and ERP. Facility Location – Models, Factors affecting facility location, Steps in Selection, Location Models. Facility Layout – Principles, Types.

	PART - A							
S. No.	QUESTIONS	BT LEVEL	COMPETENCE					
1	Define Demand Forecasting.	Level 1	Remembering					
2	Classify the need of Demand Forecasting.	Level 2	Understanding					
3	Identify the objectives of Demand Forecasting.	Level 3	Applying					
4	List the methods in Qualitative Forecasting?	Level 4	Analysing					
5	Can you list the characteristics for demand forecasting?	Level 5	Evaluating					
6	What is your opinion of Capacity planning?	Level 6	Creating					
7	What is aggregate planning?	Level 1	Remembering					
8	Infer the factors affecting Capacity Planning.	Level 2	Understanding					
9	Demonstrate the concept of Capacity Planning process.	Level 3	Applying					
10	Compare the difference between RCCP and CRP.	Level 4	Analysing					
11	What conclusions can you draw on Material Requirement Planning?	Level 5	Evaluating					
12	How would you prioritize the facts in focus forecasting?	Level 6	Creating					
13	How would you explain Enterprise Resource Planning?	Level 1	Remembering					
14	Summarize the steps in Location Planning.	Level 2	Understanding					
15	How would you show your understanding of Cellular Manufacturing?	Level 3	Applying					
16	What are the features on product and process layout?	Level 4	Analyzing					
17	Define MRP II.	Level 1	Remembering					
18	Compare between MRP I and MRP II.	Level 2	Understanding					
19	Define product structure tree.	Level 1	Remembering					
20	Choose the relevant factors affecting facility location.	Level 1	Remembering					



S. No.				QUEST	IONS					BT LEVEL	COMPETENCE
1	Illustrate the various methods of Demand Forecasting.									Level 1	Remembering
2	How wo	uld you summ	narize tl	ne need,	types	of Dem	hand Fo	orecast	ing	Level 2	Understanding
3		ld you show y ng & Steps of			ng of	the Obje	ectives	of Dem	nand	Level 3	Applying
	th	xamine the tre e sales of the		•	oy usii		i-Avera	ige; Est			
		2011 2012	2013	2014	2015	2016	2017	2018	2019		
4	Sales (Rs.in lakhs)	18 24	26	28	33	36	40	44	48	Level 4	Analysing
-		xamine the tre e sales of the Year 20 Sales 1	year 2 11 20	•	3 20	ng Sem 14 20 6 1	15 20	ige. Est 16 0	limate		Analysing
5	From the following data, calculate 4 year moving average.YearIIIIIIIVVVIVIIIIIIIXXOutput20212322252427262830								Level 5	Evaluating	
6		uld you comp Also explain tł			•	• •			nct	Level 6	Creating
7	Recogniz	e the process	of Cap	acity pla	nning.	Nr.				Level 1	Remembering
	-	any has to dee e choice to 3 d below:			d C da	-					
		Data		A			(	:			
			4	Rupees)	B(R	upees)	(Rup				
		Wages ar Salaries		20000	20	0000	200	000			
8		Power an Water Expe		20000	30	0000	250	000		Level 2	Understanding
		Raw Mater and Othe Supplies	er	80000	7	5000	600	000			
		Total Initiation Initiation Total Initiation Investment	nt	200000	30	0000	250	000			
		Distributio Expense		50000	40	0000	600	000			



		Miscellaneous Expenses	40000	2	5000	30000			
		Expected Sales Per Year	225000	25	50000	225000			
	Use a	suitable criterion an	d advise th	ne com	npany on	the best ch	noice.		
9	How wo cycle?	uld you show your u	Level 3	Applying					
10	Analyse	the concept of Faci	lity layout p	orincip	les.			Level 4	Analysing
11		uld you explain the suffecting facility loca		cation	Selectio	n & Discus	s the	Level 1	Remembering
12	Demons	)				(!	5 Marks) 5 Marks) (3 Marks)	Level 2	Understanding
	d n	nachine manufactur lecide on one of the nanagement. Basec ave to advice Velu	two optior I on the foll Naachiyar	ns narr Iowing	rowed do factors : Ltd., on s	wn by its T and ratings	op level , you Location.		
	S. No.	Details of Facto	ors Ra	ting to 5 ale)	Locati A	<u>1 to 10)</u> on Loca	ation 3		
	1	Power, ability a costs	nd	3	6		4		
	2	Desire of Top le officials		1	1		2		
	3	Environmental Fa		3	5		4		
	4 5	Civil amenities Availability, willing of executive car	ness	3 5	28		4 9		
13	6	Nearness to mai centers		4	6		5	Level 4	Analysing
	7	Transportation storage costs		2	9	1	8		
	8	Labor skill, wag unionism	A 30-A	5	7		6		
	p S p fa	lant and has weigh Scores have been as preferred conditions. actor comparison fo	ed the rele ssigned wit Using the r the four le	s is evaluating 4 locations for a new e relevant scores as given below. ed with higher values indicative of g these scores, develop a qualitative our locations.					
		vant Assigned tors Weight	A		В	С	D		
	Mar	kets 0.10	70		90	80	50		
	-	f living 0.05	80		70	40	80		
	Raw m	naterial 0.25	70		80	80	60		



	supply							
	Manufacturing cost	0.35	50	40	60	30		
	Labour availability	0.20	60	70	60	50		
	Environment	0.05	50	60	70	90		
	Total	1.00						
14	Elaborate the bas	ic types of F	acility Lay	outs.			Level 1	Remembering

			PART - C							
S.No			Quest	ions						
1	Potential locations A sell at Rs. 100 per would be most econd	Unit. Find out		omical loca	•	nich ea	•	•		
2	The table below gives the actual demand in units for the past 10-month period. Compute a weighted 3 Month Moving Average where the weights are highest for the latest months and descend the order of 3, 2, 1.Month12345678910Demand100105108110112114120130128140									
3	A department works given below: Deterr Produc X Y Z	nine the numb	er of machines emand (units) 250 350	required.	the usage ng Time (\$ 3 4 5			nine as		
4										



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7	21	17	29
8	25	18	27
9	27	19	23
10	18	20	25

#### UNIT – III – DESIGN OR PRODUCT, PROCESS AND WORK SYSTEMS

**SYLLABUS:** Product Design and Development – Process, Elements, Issues, New Product development phases and Techniques. Process – Planning, Selection, Strategy, Major Decisions. Production Planning and Control – Production planning System – Benefits and Limitations, Scheduling –elements and types. Method Study, Motion Study. Work Measurement and Productivity – Measuring Productivity and Methods to improve productivity.

	PART - A							
S. No.	QUESTIONS	BT LEVEL	COMPETENCE					
1	Define product design.	Level 1	Remembering					
2	Classify the approaches to product design.	Level 2	Understanding					
3	Identify the main purpose of motion study.	Level 3	Applying					
4	List the features for a good product design.	Level 4	Analysing					
5	Discuss the benefits of product development.	Level 5	Evaluating					
6	How could you determine Productivity?	Level 6	Creating					
7	What is process planning?	Level 1	Remembering					
8	What is meant by process selection?	Level 2	Understanding					
9	Write any 3 influencing factors for designing a new product.	Level 3	Applying					
10	Contrast the meaning of MTS, MTO, ATO, ETO?	Level 4	Analysing					
11	Compile the steps in process planning.	Level 5	Evaluating					
12	Interpret the objectives of motion study.	Level 6	Creating					
13	Quote the meaning of method study.	Level 1	Remembering					
14	Compare the method study and work measurement.	Level 2	Understanding					
15	How would you use work measurement?	Level 3	Applying					
16	Differentiate Standardization and Simplification.	Level 4	Analysing					
17	How the Motion study is connected with manufacturing?	Level 1	Remembering					
18	Summarize the objectives of work measurement.	Level 2	Understanding					
19	Explain SIMO chart.	Level 1	Remembering					
20	Define partial productivity.	Level 1	Remembering					



S. No.	PART - B QUESTIONS	BT LEVEL	COMPETENCE
1	Describe the various aspects of product design, and its elements in detail.	Level 1	Remembering
2	Demonstrate the various approaches and influencing factors in deciding the product design. List the issues in it.	Level 2	Understanding
3	Identify various stages involved in developing a product.	Level 3	Applying
4	Analyze the product development techniques in detail.	Level 4	Analysing
5	Discuss the documentation requirement and steps involved process planning.	Level 5	Evaluating
6	What would you recommend the various stages in process selection methods? Also explain the process selection decision.	Level 6	Creating
7	Illustrate production planning and control in detail.	Level 1	Remembering
8	Can you explain scheduling elements and types?	Level 2	Understanding
9	How would you organize the Objectives in Motion study and principles in motion study?	Level 3	Applying
10	What are the various principles of motion study and its objectives in detail?	Level 4	Analysing
11	<ul><li>a) Recite the components of work measurement. (8Marks)</li><li>b) Tell the various techniques of work measurement. (5Marks)</li></ul>	Level 1	Remembering
12	What is meant by Productivity and discuss the three major types of productivity.	Level 2	Understanding
13	<ul><li>a) Examine the importance of productivity.</li><li>b) List the factors influencing productivity.</li></ul>	Level 4	Analysing
14	Write down the methods to improve productivity?	Level 1	Remembering
	NN		

	PART - C							
S. No.	QUESTIONS							
1	Discuss the types of Production-Planning and Control Systems							
2	Prepare a flow process chart for a hospital admission procedure for surgery.							
3	Conclude your understanding about the strategy for the Process along with types.							
4	Tell the key decisions relating to the process design and the influencing factors in it.							



#### **UNIT - IV MATERIALS MANAGEMENT**

**SYLLABUS:** Inventory Management – Nature, importance and Classification of Inventory and Inventory Control Techniques, Budgeting and Control. Purchasing – Objectives, Functions, Policies and Procedure. Vendor rating and Value Analysis. Stores Management – Nature, Layout, Classification and Coding. Overview of JIT.

	PART - A		
S. No.	QUESTIONS	BT LEVEL	COMPETENCE
1	Define Inventory Management.	Level 1	Remembering
2	Classify Inventory on the basis of elements and purpose.	Level 2	Understanding
3	Identify the various facts in Economic Ordering Quantity.	Level 3	Applying
4	List the objectives of purchasing.	Level 4	Analysing
5	What do you think about "Inventory position"?	Level 5	Evaluating
6	Explain material planning.	Level 6	Creating
7	What do you mean by purchasing?	Level 1	Remembering
8	What is meant by Mnemonic Code in materials management?	Level 2	Understanding
9	How would you apply the steps in lean manufacturing?	Level 3	Applying
10	Why do you think JIT is needed in manufacturing?	Level 4	Analysing
11	Compile the various components of Inventory Carrying Cost.	Level 5	Evaluating
12	How could you determine the term "Store Layout"?	Level 6	Creating
13	How would you explain centralized buying?	Level 1	Remembering
14	Explain materials management manual.	Level 2	Understanding
15	How would you make use of FSN and ABC analysis?	Level 3	Applying
16	What is the relationship between the "push" and "pull" methods of material flow?	Level 4	Analysing
17	Recognize the term Re-order point.	Level 1	Remembering
18	Infer the meaning of Vendor rating.	Level 2	Understanding
19	Explain value analysis.	Level 1	Remembering
20	Define JIT.	Level 1	Remembering



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2     Ex       3     Idu       3     Idu       4     W       5     Di       6     Pr       7     De       7     De       8     Hu       9     Hu       10     Car       11     b)       5     a)	<ul> <li>Explain nature and importance of Inventory management.</li> <li>Explain the classification of inventory.</li> <li>Identify the inventory control techniques.</li> <li>What are the features in selective inventory control?</li> <li>Discuss the objectives, functions of purchasing?</li> <li>Prioritize the Importance of budgeting and control in inventory rocess.</li> <li>Describe the procedure in purchasing.</li> <li>Idow would you summarize the policies and procedure in urchasing?</li> <li>Idow would you Organize the various purchasing policies?</li> </ul>	Level 1 Level 2 Level 3 Level 4 Level 5 Level 6 Level 1 Level 2	RememberingUnderstandingApplyingAnalysingEvaluatingCreatingRememberingUnderstanding
3       Ida         4       W         5       Di         5       Di         6       Pr         7       De         7       De         8       Ho         9       Ho         10       Ca         11       b)         5       Di         6       Di         7       De         9       Ho         10       Ca         10       De         10       De         10       De         10       De         10       De         11       De         12       De         13       De	dentify the inventory control techniques. What are the features in selective inventory control? Discuss the objectives, functions of purchasing? Prioritize the Importance of budgeting and control in inventory rocess. Describe the procedure in purchasing. Now would you summarize the policies and procedure in urchasing?	Level 3 Level 4 Level 5 Level 6 Level 1 Level 2	Applying Analysing Evaluating Creating Remembering
4 W 5 Di 6 Pr pr 7 De 7 De 8 Ha pu 9 Ha 10 Ca rat a) 10 Ca b) b) 10 a)	What are the features in selective inventory control?         Discuss the objectives, functions of purchasing?         Prioritize the Importance of budgeting and control in inventory rocess.         Describe the procedure in purchasing.         Iow would you summarize the policies and procedure in urchasing?	Level 4 Level 5 Level 6 Level 1 Level 2	Analysing Evaluating Creating Remembering
5       Di         5       Di         6       Pr         7       De         7       De         8       Ho         9       Ho         10       Car         11       A)         b)       A)         10       A)         11       A)         11       A)         11       A)         11       A)         11       A)	Discuss the objectives, functions of purchasing? Prioritize the Importance of budgeting and control in inventory rocess. Describe the procedure in purchasing. How would you summarize the policies and procedure in urchasing?	Level 5 Level 6 Level 1 Level 2	Evaluating Creating Remembering
6 Pr pr 7 De 8 Ho pu 9 Ho 10 Ca ra 10 Ca ra 10 Ca b) b) 11 b)	Prioritize the Importance of budgeting and control in inventory rocess. Describe the procedure in purchasing. Now would you summarize the policies and procedure in urchasing?	Level 6 Level 1 Level 2	Creating Remembering
6     pr       7     De       8     Ha       9     Ha       10     Ca       11     A)       11     b)       a)     a)	rocess. Describe the procedure in purchasing. Now would you summarize the policies and procedure in urchasing?	Level 1 Level 2	Remembering
8     Ha       9     Ha       10     Ca       11     a)       11     b)       a)     a)	low would you summarize the policies and procedure in urchasing?	Level 2	
8 pu 9 Ho 10 Ca ra a) 11 b) a)	urchasing?		Understanding
10 Ca ra a) 11 b) a)	low would you Organize the various purchasing policies?		
<sup>10</sup> ra a) 11 b) a)		Level 3	Applying
11 b) a)	Can you identify the different techniques involved in vendor ating?	Level 4	Analysing
	<ul> <li>Explain in detail the procedure to carry out Value Analysis (8Marks)</li> <li>List the Pros and Cons of Value Analysis (5Marks)</li> </ul>	Level 1	Remembering
	<ul> <li>) Give a detailed outline on layout of stores (5Marks)</li> <li>) Explain the classification and coding of stores layout (8Marks)</li> </ul>	Level 2	Understanding
a) 13 b)	<ul> <li>What inference can you make in Store management? (3 Marks)</li> <li>Can you list the objectives and procedure of Store management? (10 Marks)</li> </ul>	Level 4	Analysing
1/1	lustrate the elements, benefits and limitations of JIT with real	Level 1	Remembering
	vorld example.		

	PART - C								
S. No.	Questions								
1	As a purchase manager of Thirunelveli Group of companies, what factors do you consider to evaluate the vendors?								
2	<ul> <li>The following details are available in respect of a firm: <ol> <li>Inventory requirement per year = 6000 Units</li> <li>Cost per Unit (Other than Carrying and Ordering Cost) = Rs 5</li> <li>Carrying cost per unit for One Year = Re. 1</li> <li>Cost of Placing each Order = Rs 60</li> <li>Alternative Order Sizes (Units) 6000, 3000, 2000, 1000, 600 and 200.</li> </ol> </li> <li>Determine the Economic Ordering Quantity.</li> </ul>								



3	Assume you are a storekeeper of a textile unit. What are your roles and responsibilities?				
4	<ul> <li>a) Mr.Tamil Selvan keeps his inventory in special containers. Each container occupies 10 square feet of store space. Only 5,000 square feet of the storage space is available. The annual demand for the inventory item is 9,000 containers, priced at Rs. 8 per container. The ordering cost is estimated at Rs. 40 per order and the annual carrying costs amount to 25% of the inventory value. Would you recommend to Mr.Tamil Selvan to increase his storage space? If so, how much should be the increase? (8 Marks)</li> </ul>				
	<ul> <li>b) Aluva Company uses annually 12,000 units of raw material costing Rs. 1.25 per unit.</li> <li>Placing each order costs Rs. 15 and the carrying cost is 15% per year per unit of the average inventory, find the economic order quantity.</li> <li>(7 Marks)</li> </ul>				

#### UNIT - V SCHEDULING AND PROJECT MANAGEMENT

**SYLLABUS:** Project Management – Nature, Constraints in Projects, Project Life Cycle. Scheduling Techniques, PERT, CPM; Scheduling –Process, Techniques; shop floor control; Flow shop scheduling – Johnson's Algorithm – Gantt charts; personnel scheduling in services.

	PART - A		
S. No.	QUESTIONS	BT LEVEL	COMPETENCE
1	Define project and project management.	Level 1	Remembering
2	Compare forward scheduling and backward scheduling.	Level 2	Understanding
3	Identify the purpose of PERT?	Level 3	Applying
4	List the objectives of project management.	Level 4	Analysing
5	Construct the estimate expected time in PERT network.	Level 5	Evaluating
6	Write down the tasks that project team must perform before the project begins?	Level 6	Creating
7	What is PERT?	Level 1	Remembering
8	How would you compare CPM and PERT?	Level 2	Understanding
9	Construct the meaning of Gantt Chart.	Level 3	Applying
10	What inference can you make of Zero Total Float?	Level 4	Analysing
11	Discuss any two principles of Work Center Scheduling.	Level 5	Evaluating
12	How would you determine the concept of Personnel Scheduling in services?	Level 6	Creating



13	Explain Shop floor control.	Level 1	Remembering
14	What is meant by technical feasibility?	Level 2	Understanding
15	Discuss the Project Management Triangle	Level 3	Applying
16	What are the ways of scheduling work centers?	Level 4	Analysing
17	Define Johnson's rule.	Level 1	Remembering
18	What is the main idea of Slack?	Level 2	Understanding
19	How would you describe the Load leveling?	Level 1	Remembering
20	Define the term critical path method (CPM).	Level 1	Remembering

S. No.			Part - B Ques	stions			BT Level	Competence
1	Can you ela	borate the	project manag	ement pro	ocess?		Level 1	Remembering
2	Demonstrat	e the featur	es and constra	aints in Pr	oject Manage	ement.	Level 2	Understanding
3	Identify the	techniques	would you use	to explai	in in schedulii	ng.	Level 3	Applying
4	How do you	u classify the		Level 4	Analysing			
5	Explain the	tools and fu	inctions of Sho	pfloor Co	ontrol?		Level 5	Evaluating
6	Network	e between l	Level 6	Creating				
7	Activity A B C D E F G H (i) Drav	Precedin g Activity - - A A A A B,C D E,F.G	3 activities has Time Esti Most Optimistic 2 10 8 10 7 9 3 5 Network for the Critical Path.	mates (ir Most Likely 4 12 9 15 7.5 9 3.5 5	Weeks) Most Pessimisti c 12 26 10 20 11 9 7 5		Level 1	Remembering



8	Classify you	ır view a	bout Sched	uling of Wo	rk Centers.		Level 2	Understanding
9	other inform	1-2 1-3 2-3 2-4 3-4 4-5 v a PER the prob	Optimisti c Time a 30 8 1 2 8 14 T Diagram pability that 1	Normal Time m 44 12 2 3 10 22	Production pro Pessimistic Time b 54 16 3 5 12 25 will be comple		Level 3	Applying
10	than 63 days.In a factory, there are six jobs to perform, each of which should go through two machines A and B, in the order AB. The processing timing (in hours) for the jobs is given here. You are required to determine the sequence for performing the jobs that would minimize the total elapsed time, T. What is the value of T?10Jobs Machine Machine A B 1 7 3 2 4 8 3 2 6 4 5 6 5 9 4 6 8 1						Level 4	Analysing
11	How would	you deso	cribe the diff	erent types	of Gantt Chai	rt?	Level 1	Remembering
12	Summarize the following: a) Active schedule b) Semi _active schedule c) Non _delay schedule							Understanding
13	b) Examine	e the ma	•	/stem and p	and CPM? patterns in faci	ility layout	Level 4	Analysing
14		Finish ai	culate nd Latest Fi d Latest Sta	•	•		Level 1	Remembering



			PART	- C					
S.No	Questions								
		the Total F al Path of t	loat for each he project a	n activi Ind its	ty. duration		alculate:		
		Activity 1-2	Duration 2		Activity 4-6	Duration	-		
1		1-2	2		<u>4-0</u> 5-8	3	-		
		1-3	1	-	<u> </u>	5	-		
		2-5	4	-	7-8	4	-		
		3-6	8	_	8-9	3	-		
		3-7	5						
2	Elaborate your opin Management.	on about tl	ne Product L	₋ife Cy	cle with r	elevance to	Operation		
3	Consider the tasks, durations, and predecessor relationships in the following network. Draw the network and answer the questions that follow. (i) What is the variance for activity B? (ii) Based on the calculation of estimated times, what is the critical path? (iii) What is the estimated time of the critical path? (iv) What is the probability of completion of the project before week 42?								
	A small project cons	tivity Precedin Activity		y D	uration				
	A	-	4						
	В	A	7						
	C	150	6						
4	D	С	5						
	E	В	7						
	F	D,E	6						
	G	F	5						
	<ul> <li>i) Draw the network</li> <li>ii) Calculate total flo</li> </ul>		• •	omplet	ion time.				