SREENIVASA INSTITUTE of TECHNOLOGY and MANAGEMENT STUDIES (AUTONOMOUS)

(22MBA124:PRODUCTION AND OPERATIONS MANAGEMENT)

QUESTION BANK

I MBA / II - SEMESTER



REGULATION: R22

вУ

FACULTY INCHARGE: DR.C.JYOTHSNA, ASSOCIATE PROFESSOR

DEPARTMENT : MASTER OF BUSINESS ADMINISTRATION



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IMDA Com	oston II						
I MBA – Sem Course Code		L	Т	P	C		
22MBA124	MANAGEMENT	4	0	0	4		
	ational Objectives:	7	U	U			
CEO1 : To understand the concepts of POM and to study about product and							
	ocess designs		1				
CEO2 : To	study about facilities management and aggregat	e planr	ing				
CEO3 : To	analyze about the different types of scheo	luling	pro	cess	and		
me	ethods of inventory control						
	study about methods of work measurement and	produc	tivit	y			
CEO5 : To	discuss about various quality control techniques						
UNIT - I	Introduction to POM	Le	cture	e Hr	s: 10		
Overview of P	roduction and Operations Management (POM)-	functio	n-H	istoı	rical		
Development of	of POM- POM scenario today.						
Product and	l Process Design: Product and Process	Dev	elon	men	t -		
	g Process Technology - CAD/CAM.	ВСТ	Стор	111011	·		
UNIT - II	Facilities Management and Aggregate	Le	cture	Ит			
	Facilities Management and Aggregate Planning	10	Juic	1113	٠.		
ALCHNOZOGO Z			_				
Aggregate of Optimal Pro UNIV			of etel	ina	tion		
	Job Shop Type Production – Shop Loading -Sc nd Project Type Production - Line balanci						
Production Co	ntrol - Methods of Inventory control-EOQ, ABC	analy	sis.				
UNIT - IV	Work Study	Leo	cture	Hrs	::10		
Method Study - Work measurement - Work Design - Work Sampling - Industrial Engineering Techniques. Productivity: Basic Concepts - Productivity Cycle - Total Productivity Model.							
UNIT - V	Quality management	Leo	cture	Hrs	:10		
Sampling - Tl	Quality Assurance - Inspection and Quality Coheory of control charts, control charts for vaributes - Total quality management and ISO 900	iables	and	cor	itrol		
Course Outcomes (CO):							
On successful completion of the course the student will be able to POs & PSOs related to COs							
CO Analyze	s the concepts of POM and various designs		, PC				
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CO2	Apply the knowledge on facilities management and	PO1, PO2, PO4,
	aggregate planning.	PO5, PSO1,PSO2
CO3	Examine the scheduling process and methods of	PO1, PO2, PO4,
	inventory control.	PO5, PSO1,PSO2
CO4	Outline the concept of work measurement and	PO1, PO2, PO4,
	productivity.	PO5, PSO1,PSO2
CO5	Explain quality control techniques.	PO1, PO2, PO4,
	· · ·	PO5, PSO1,PSO2

Text Books:

- 1. Production and Operations Management Books, Prof. K.C. Jain, 2019.
- 2. Production and Operations Management Systems, Sushil Gupta, Martin Starr, Taylor & Francis, 2014.

Reference Books:

- 1. Production and operations Management, 3/e, Aswathappa K, Himalaya Publishing House, Mumbai, 2011.
- 2. Production and Operations Management, 2/e, R. Panner Selvam, PHI Learning Private Ltd., New Delhi. 2006.
- 3. Production and Operations Management, 5/e,Everett E. Adam, Jr.Ronald J.Ebert, PHI Learning Private Ltd., New Delhi, 2010.

Online Learning Resources:

s://www.managementstudyguide.com/process-design-and-analysis.htm st//www.indeed.com/career-advice/oureer-development/aggregate

s. //www.managementstudyguide.com/work-study-and andustria

s://asq.org/quality-resources/total-quality-management

COURSE OUTCOMES VS POs MAPPING (DETAILED; HIGH:3; MEDIUM:2; LOW:1):

Cours e	PO CO	PO 1	P O 2	P O 3	PO 4	P O 5	P O 6	PO 7	PO 8	PSO 1	PSO2
NOS	C1204.	3	3	-	3	3	-	ı	-	3	3
CTION	C1204.	3	3	-	3	3	-	-	-	3	3
	C1204.	3	3	-	2	3	-	-	-	3	2.5
: PRODUCTIO OPERATIONS	C1204.	3	3	-	2	2	-	-	-	3	2
	C1204.	3	3	-	3	2	-	-	-	3	2.5
C1204 AND MA	C1204	3	3	-	2.6	2.6	-	-	-	3	2.6



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Questio							
n No.	Questions	PO Attainment					
UNIT – 1: Introduction							
	PART-A (Two Marks Questions)						
1	What is production management?	PO1, PO2, PO4, PO5,					
_		PSO1,PSO2					
2	What is operations management?	PO1, PO2, PO4, PO5,					
2		PSO1,PSO2					
3	List out production system concepts?	PO1, PO2, PO4, PO5,					
3		PSO1,PSO2					
4	Distinguish between production and operations management?	PO1, PO2, PO4, PO5,					
4		PSO1,PSO2					
5	Give the scope of production and operations management?	PO1, PO2, PO4, PO5,					
3		PSO1,PSO2					
6	as out the characteristics of moder PO function	1, P 2, PO4, PO5,					
		PSO1,F, 02					
7	What is Strategic decision.	PO1, PO2, DO4, PO5,					
,		PSO1,PSO2					
8	What is Operating decision?	PO1, PO2, PO4, PO5,					
		PSO1,PSO2					
9	What is control decision?	PO1, PO2, PO4, PO5,					
9		PSO1,PSO2					
10	What is meant by Service resolution?	PO1, PO2, PO4, PO5,					
10		PSO1,PSO2					
11	Trace the evolution of Production function?	PO1, PO2, PO4, PO5,					
11		PSO1,PSO2					
12	Bring out the characteristics of CAD?	PO1, PO2, PO4, PO5,					
12		PSO1,PSO2					
13	State the objectives of CAM?	PO1, PO2, PO4, PO5,					
13		PSO1,PSO2					
14	Name the various Product development stages?	PO1, PO2, PO4, PO5,					

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		PSO1,PSO2
1	Define product?	PO1, PO2, PO4, PO5,
15		PSO1,PSO2
16	What is Product Design?	PO1, PO2, PO4, PO5,
16		PSO1,PSO2
15	What is Process Design?	PO1, PO2, PO4, PO5,
17		PSO1,PSO2
10	List the cycles of PLC?	PO1, PO2, PO4, PO5,
18		PSO1,PSO2
10	What is Product Development?	PO1, PO2, PO4, PO5,
19		PSO1,PSO2
	What is Process Development?	PO1, PO2, PO4, PO5,
20		PSO1,PSO2
	PART-B (Ten Marks Questions)	
1	Work POM? Give its scope, objectives and importance.	PO1_PO4
2	Define preduct on system Discuss in detail?	01, PO#
N.	Trace the exolution sprojection function in letai	PO1, F
4	Bring out the ISM ecisions with their appleations	AL PO
5	Write short notes on the following:	PO1, PO4
6	Strategic decision	PO1, PO4
7	Control decision	PO1, PO4
8	Operating decision	PO1, PO4
	What is production management? What is operations	PO1, PO4
9	management? Bring out the differences between the two?	
	Bring out the stages in the development of a new product.	
10	Explain each stage in brief?	PO1, PO4

Questio n No.	Questions	PO Attainment			
	UNIT – 2: : Facilities Management and Aggregate Planning				
	PART-A (Two Marks Questions)				
1	What is meant by Plant Location?	PO1,PO2			



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2	Define Location?	PO1,PO2
3	State the steps in Plant location?	PO1,PO2
4	State the advantages of Village Site?	PO1,PO2
5	List out the advantages of City site?	PO1,PO2
6	Mention the steps in Plant Location?	PO1,PO2
7	Define the term Plant layout?	PO1,PO2
8	What is meant by Plant layout?	PO1,PO2
9	State ant two principles of Plant layout?	PO1,PO2
10	Mention any four types of Layout?	PO1,PO2
11	What do you understand by CM Layout?	PO1,PO2
12	Define the Process Layout?	PO1,PO2
13	State the reasons for revision of Layout?	PO1,PO2
14	What is fixed position layout?	PO1,PO2
15	What is aggregate planning?	PO1,PO2
16	Define Demand Foregast?	PO1,PO2
17	The out the values steps in Deman Forecast?	P01,PO2
18	What is Master Production Schedul 1g?	21,PO2
19	Pefine Capaci Util Zation	P 1,PO2
20	Brieffores on Optimal Production Strategy?	PO1,PO2
	PART-B (Ten Marks Questions)	
1	What is POM? Give its scope, objectives and importance.	PO1,PO2
2	Define production system? Discuss in detail?	PO1,PO2
3	Trace the evolution of production function in detail?	PO1,PO2
4	Bring out the POM decisions with their applications?	PO1,PO2
5	Write short notes on the following:	PO1,PO2
6	Strategic decision	PO1,PO2
7	Control decision	PO1,PO2
8	Operating decision	PO1,PO2
9	What is production management? What is operations management? Bring out the differences between the two?	PO1,PO2



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10	Bring out the stages in the development of a new product. Explain each	PO1,PO2
10	stage in brief?	101,102

Questio					
n No.	Questions	PO Attainment			
UNIT – 3: Scheduling					
	PART-A (Two Marks Questions)				
1	Define Scheduling?	PO2			
2	What is Shop floor planning?	PO2			
3	What is Forward Scheduling?	PO2			
4	What is Backward Scheduling?	PO2			
5	Define Loading?	PO2			
6	Brief notes on Finite Loading?	PO2			
7	Write short notes on Infinite Loading?	PO2			
8	What is Line balancing?	PO2			
9	Many two line balancing methods?	PO2			
10	Define Lake of Balance?	PO2			
11	Draw Gante Load Shart?	PO2			
12	List out the technique of lane of Brance?	O2			
13	What is Production control?	PO2			
14	What is Mass Production?	PO2			
15	Write short notes on Continuous production?	PO2			
16	What is Inventory Control?	PO2			
17	List out the methods of Inventory Control?	PO2			
18	What is Project type production?	PO2			
19	Define EOQ?	PO2			
20	Define ABC Analysis?	PO2			
	PART-B (Ten Marks Questions)				
1	Briefly explain the various elements of operations planning and	PO2			
1	scheduling system.	102			
2	What is scheduling? What are the different types of production systems?	PO2			
2	What is priority sequencing? List the various criteria used in it and state	PO2			
3	how an appropriate sequencing rule in practice?	102			



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4	What scheduling decisions must operations managers resolve in product focused factories?	PO2
5	What is line of balance? Explain the LOB technique with an illustration?	PO2
6	Describe the scheduling process for high volume continuous production system?	PO2
7	What is Line Balancing? Why it is used?	PO2
8	What is Inventory Control? Explain in detail the various methods of Inventory control?	PO2
9	Evaluate EOQ as a method of setting length of Production runs. What are its strengths and Weaknesses?	PO2
10	Explain how EOQ and ABC analysis method improves inventory control. What are its advantages and disadvantages?	PO2

Questio n No.	Questions	PO Attainment
	UNIT – 4: Work Study	
	PART-A (Two Marks Questions)	
1	Define the term Work Study?	PO2
2	Define the term Method Study?	PO2
3	What is Work Simplification?	PO2
4	Define the term Motion Study?	PO2
5	What is Time study?	PO2
6	What is Work Measurement?	PO2
7	What do you understand by PMTS?	PO2
8	List out the objectives of Time Study?	PO2
9	What is Work Sampling?	PO2
10	What is Work Design?	PO2
11	What is Job Design?	PO2
12	List out the factors affecting Job Design?	PO2
13	What are the steps involved in Work measurement?	PO2
14	Write short notes on Industrial Engineering Techniques?	PO2



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15	Define Productivity?	PO2
16	List out basic concepts of Productivity?	PO2
17	Mention the steps in Productivity cycle?	PO2
18	What is Total Productivity Model?	PO2
9	How do you improve Productivity?	PO2
20	Define Ergonomics?	PO2
	PART-B (Ten Marks Questions)	
1	Define the term Work Study and State its objectives?	PO2
2	Define the term Method Study and state its objectives?	PO2
3	Enumerate the steps involved in basic work study procedure?	PO2
4	Briefly describe the various steps involved in method study procedure?	PO2
5	What are the various types of charts used in method study?	PO2
6	State the objectives of work Measurement. What are its benefits?	PO2
7	What is work sampling? What are its uses?	PO2
8	Discuss about: a Job Design b Work Design	PO2
9	write store note on Industrial Engineering Technques?	PO2
10	Explain in detail about Total Productivity Model?	O2

Questio n	Questions	PO Attainment	
No.			
UNIT – 5: Quality management			
PART-A (Two Marks Questions)			
1	Define the term Quality?	PO1,PO2	
2	Define the term Quality Creation?	PO1,PO2	
3	Define the term Quality Assurance?	PO1,PO2	
4	What is Inspection?	PO1,PO2	
5	Write short notes on Economics of Quality Assurance?	PO1,PO2	
6	Define the term Quality Control?	PO1,PO2	
7	What is SQC?	PO1,PO2	
8	What is TQM?	PO1,PO2	
9	What do you mean by Acceptance Sampling?	PO1,PO2	
10	State the types of Control Charts?	PO1,PO2	
11	List the Control charts for variables?	PO1,PO2	
12	List the Control charts for Attributes?	PO1,PO2	
13	What do you mean by ISO?	PO1,PO2	



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14	What is Six Sigma?	PO1,PO2	
15	Give the components of TQM?	PO1,PO2	
16	What is JIT?	PO1,PO2	
17	Who is Master Black belt?	PO1,PO2	
18	What is the role of Green Belts?	PO1,PO2	
19	What is DMADC?	PO1,PO2	
20	State the objective of ISO 9000	PO1,PO2	
PART-B (Ten Marks Questions)			
1	Define Quality? How it is ensured?	PO1,PO2	
2	Discuss in detail the quality control techniques?	PO1,PO2	
3	Bring out the famous Deming's principle of quality?	PO1,PO2	
4	What are Control charts? Discuss in detail the different types of control charts?	PO1,PO2	
5	What is Quality Control? How are they formed and how can they be made more effective?	PO1,PO2	
6	What is Sigma? What are the various elements of six sigma?	PO1,PO2	
7	Miscuss redet l Acceptance sampling? How it a under gave in Quality management?	PO1,PO2	
8	What is Total quality man rement? What are its key omponen?	Pc 1,PO2	
9	Watter SO? Bring out the benefits from getting ISO 9000 Certificate?	PO1,PO2	
10	Define Quality? How it is ensured?	PO1,PO2	

ALL THE BEST