Printe	ed Pas	ge:- Subject Code:- AMIBA0406			
	(	Roll. No:			
NO	OIDA :	INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA			
		(An Autonomous Institute Affiliated to AKTU, Lucknow)			
MBA (Integrated)					
SEM: IV - THEORY EXAMINATION (20 20)					
Subject: Production and Operations Management Time: 2.5 Hours  Max. Marks: 60					
		tructions:			
		that you have received the question paper with the correct course, code, branch etc.			
1. This Question paper comprises of three Sections -A, B, & C. It consists of Multiple Choice					
Quest	ions (	MCQ's) & Subjective type questions.			
		n marks for each question are indicated on right -hand side of each question.			
		your answers with neat sketches wherever necessary.			
		suitable data if necessary. y, write the answers in sequential order.			
		should be left blank. Any written material after a blank sheet will not be			
		necked.			
SECT	TION-	$\cdot$ A 15			
1-a.	<ol> <li>Attempt all parts:-</li> <li>A flexible manufacturing system is designed to: (CO1, K1)</li> </ol>				
ı u.	(a)	Produce a single type of product efficiently			
	(a) (b)	Adapt to changes in product demand and design			
	` ′				
	(c)	Minimize employee training  Maximiza rayy material years			
1 1	(d)	Maximize raw material usage			
1-b.	_	factor has the most significant impact on productivity.(CO2,K2)			
	(a)	Technology			
	(b)	Workforce motivation			
	(c)	Management strategies			
	(d)	Environmental conditions			
1-c.	L	ead time in inventory management refers to: (CO3,K1)			
	(a)	The time taken to produce finished goods			
	(b)	The time taken for an order to be delivered after it is placed			
	(c)	The time taken to count inventory			
	(d)	The time taken for products to be sold			
1-d. Stage of the product life cycle involves gathering customer feedback: (CO4, K					
	(a)	Introduction			
	(b)	Growth			
	(c)	Maturity			

	(d)	Decline		
1-e.	T	The bullwhip effect refers to: (CO5,K1)		
	(a)	A sudden increase in demand causing shortages in the supply chain		
	(b)	A decrease in demand causing excess inventory buildup		
	(c)	Efficient supply chain management practices		
	(d)	Minimal fluctuations in inventory levels		
2. Att	empt a	all parts:-		
2.a.	N	fame two production scheduling techniques. (CO1,K1)	2	
2.b.	D	Define value analysis.(CO2,K1)	2	
2.c.	E	xplain inventory and its importance in business. CO3, K1)	2	
2.d.	G	live an example of a product suited for continuous manufacturing.(CO4,K2)	2	
2.e.	D	efine supply chain integration.(CO5,K1)	2	
SEC <sub>1</sub>	TON-	<u>-B</u>	15	
3. Ans	swer a	any three of the following:-		
3-a.		viscuss the advantages and disadvantages of different production scheduling echniques. (CO1,K1)	5	
3-b.	E	xplain the concept of time-motion study. (CO2.K2)	5	
3.c.		viscuss the challenges associated with implementing a just-in-time (JIT) inventory system. (CO3,K2)	5	
3.d.		In what ways does continuous manufacturing affect the environment differently nan batch (intermittent) production?"(CO4,K3)	5	
3.e.	D	viscuss the concept of Kaizen in continuous improvement.(CO5,K2)	5	
<b>SECT</b>	TION-	<u>-C</u>	30	
4. Ans	swer a	any one of the following:-		
4-a.		Suggest an effective production scheduling strategy to overcome bottlenecks and elays in a manufacturing process. Justify your choice.".(CO1,K5)	6	
4-b.		compare and contrast the different types of plant layouts. Describe the advantages and disadvantages of each? (CO1,K2)	6	
5. Ans	swer a	any one of the following:-		
5-a.		xplain the concept of work measurement and its significance in productivity inprovement. (CO2, K2)	6	
5-b.		viscuss the challenges faced by organizations in implementing productivity inprovement initiatives.(CO2,K2)	6	
6. Ans	swer a	any one of the following:-		
6-a.		magine you are a consultant for a small business. Describe the steps you would tke to implement a just-in-time (JIT) inventory system.(CO3, K1)	6	
6-b.		viscuss the concept of inventory turnover ratio and its interpretation in evaluating eventory management performance.(CO3,K2)	6	

- 7. Answer any one of the following:-
- 7-a. Discuss the factors influencing the selection of suitable manufacturing processes for a given product. (CO4,K2)
  - 6

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- A car manufacturing plant produces vehicles on an assembly line where the cars 7-b. move continuously through various stages of assembly. Explain the continuous manufacturing system in this context and its advantages.(CO4,K3)
- 8. Answer any one of the following:-
- Explain the concept of total cost of ownership (TCO) in supply chain decision 8-a. making.(CO5,K1)
- 8-b. "Evaluate strategies a retail company can use to manage unexpected changes in 6 product demand."(CO5,K6)

