Printe	ed Pa	ge:- Subject Code:- BMBA0206 Roll. No:
NO	OIDA I	INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA (An Autonomous Institute Affiliated to AKTU, Lucknow)  MBA SEM: II - THEORY EXAMINATION (20 20)
		Subject: Operations and Supply Chain Management
	ie: 3 H	
		structions:
		with the third that you have received the question paper with the correct course, code, branch etc. stion paper comprises of three Sections -A, B, & C. It consists of Multiple Choice
	_	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.
		uitable data if necessary. ly, write the answers in sequential order.
	*	should be left blank. Any written material after a blank sheet will not be
		hecked.
<b>SECT</b>	TION-	$\bullet$ 20
1. Atte	empt a	all parts:-
1-a.	Fa	acility location decisions (CO1,K2)
	(a)	Do not affect other capacity decisions
	(b)	Are intermediate range capacity decisions
	(c)	Are not affected by other existing capacities
	(d)	None of the above
1-b.		Then workstations are arranged according to the progressive steps by which the roduct produced it is called a (CO1,K3)
	(a)	Functional layout
	(b)	Product layout
	(c)	Fixed position layout
	(d)	Job shop layout
1-c.	D	istinct characteristic of services is(CO2,K2)
	(a)	Intangibility
	(b)	Inseparability
	(c)	Variability
	(d)	Perishability
1-d.	O	ne way to increase reliability is to (CO2,K3)
	(a)	improve component design
	(b)	increase the number of service stations

	(c)	increase mean repair time		
	(d)	none of these		
1-e.	W	Which one of the following is not a basic option for altering demand? (CO3,K3)		
	(a)	subcontracting		
	(b)	pricing		
	(c)	promotion		
	(d)	none of these		
1-f.	ABC analysis depends on the (CO3,K3)			
	(a)	Quality of materials		
	(b)	Cost of materials		
	(c)	Annual consumption value of materials		
	(d)	none of these		
1-g.	Small changes in consumer demand can result in large variations in orders placed because of the: (CO4,K3)		1	
	(a)	Supply chain		
	(b)	Safety stock requirement		
	(c)	Lead time effect		
	(d)	Bullwhip effect		
1-h.	A	A control chart used to monitor the process mean is the: (CO5,K4)		
	(a)	x-bar chart		
	(b)	p-chart		
	(c)	R-chart		
	(d)	none of these		
1-i.	W	That is the purpose of using a "weighted moving average"?(CO4,K2)	1	
	(a)	To smooth out seasonal variations		
	(b)	To use only the most recent observation		
	(c)	To give more importance to recent data points		
	(d)	Break-even analysis		
1-j.	T	he "Control" phase of DMAIC is intended to ensure that: (CO5,K4)	1	
	(a)	Data analysis is overseen		
	(b)	Inputs are closely monitored		
	(c)	Improvements are sustained		
	(d)	None of the above		
2. Att	empt a	all parts:-		
2.a.	D	efine work study. (CO1,K2)	2	
2.b.	E	xplain empathy.(CO2,K3)	2	
2.c.	D	Distinguish between routing and loading.(CO3,K3)		
2.d.	E	Explain bullwhip effect. (CO4,K3)		

2.e.	Define Pareto chart. (CO5,K3)		2	
<b>SECTI</b>	ON-B		30	
3. Ansv	ver any <u>five</u> of the following:-			
3-a.	Distinguish between product layout and process layout. (CO1,K3)		6	
3-b.	Define productivity. Discuss the important factors affecting productivity. (CO1,K3)		6	
3-c.	Define service. Distinguish between product and service. (CO2,K3)			
3-d.	Briefly explain role of services in the I	ndian economy.(CO2,K4)	6	
3.e.	Differentiate between holding cost and	inventory cost. (CO3,K4)	6	
3.f.	Describe the five supply chain drivers.	(CO4,K4)	6	
3.g.	Describe the importance of six sigma.	(CO5,K4)	6	
<b>SECTI</b>	ON-C		50	
4. Ansv	ver any one of the following:-			
4-a.	Explain how the method study and work measurement techniques be effectively implemented to optimize processes and improve efficiency. (CO1,K4)		10	
4-b.	Explain the factors to be considered while selecting location choice for a facility.(CO1,K4)			
5. Ansv	ver any one of the following:-	25		
5-a.	Describe important gaps identified in g	ap theory of service quality. (CO2,K4)	10	
5-b.	Explain SERVQUAL model. Discuss the importance of SERVQUAL model in measuring service quality.(CO2,K4)			
6. Ansv	ver any one of the following:-			
6-a.	The John equipment company estimates its carrying cost at 15% and its ordering cost at Rs. 90 per order. The estimated annual requirement is 78,000 units at a price of Rs. 4 per unit.  (i). What is the most economical no. of units to order?  (ii). No. of orders to be placed in a year.  iii). About how often will an order need to be placed?  (CO3,K4)			
6-b.	Distinguish between aggregate planning and master production 1 schedule. (CO3,K3)			
7. Ansv	ver any one of the following:-			
7-a.	Given the weekly demand data, what are the exponential smoothing forecasts for Periods 2-6 using A) $\alpha = 0.40$ Assume F1=D1			
	WEEK	DEMAND	]	
	1	590	]	
	2	625		
	3	600		
	4	720		

	5	700		
	6	??		
	(CO4,K4)			
7-b.	Briefly describe inbound logistics activitisuitable examples. (CO4,K3)	es and out bound logistics activities with	10	
8. Answer any one of the following:-				
8-a.	Discuss different types of control charts. Explain why statistical process control uses control charts. (CO5,K4)		10	
8-b.	Discuss any five new tools of quality con	trol with examples.(CO5,K4)	10	

