		(Fo	ollowing Paper ID ar	nd Roll No. to be	fille	ed in y	our 1	Ansv	ver	Воо	k)		
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er e		- LVL	ß	M.B.A.									with an a star coast
		(5	SEM IN EVEN SEM	ESTER THEORY	EX <i>A</i>	AMINA	TIO	N, 20	009-	2010)		
			PRODUCTION	& OPERATION	NS :	MAN	AGE	MEN	T				
Time		ours					· ••	*		To	tal N	Aark:	s : 100
Note	: (i,	. 7	The Question Paper con	tains three parts.									
-	(ii	i) A	All questions are compi	ılsory.									
				PART - I									
1.			tion contains 20 object	ive type questions.	Ch	oose th	e cor	rect a	ansv	er a			
			order :									(20x	1=20)
	(a)		duction is the										
		(i)	Establishment of in	-		aaada							
		(ii) Marginal transformation of services and goods(iii) Transformation of inputs into goods and services.											
		` '		- 0	ıncı	service	S.						
	(iv) Emerging process of efficiency.(b) Which of the following is <i>not</i> an activity performed by the production mana								200				
	(b)			·				•		on i	Hall	ager	•
		(i) (;;;)	Quality Control	(ii)		nventoi	усс	muro					
	(iii) Work study(iv) Pricing(c) Which one of the following is a type of product development technique?												
	(c)	(i)	Standardization	ig is a type of pro (ii)		implifi			ec.m	ique	: (
			Specialization	(iv)		III of th							
	(d)		ich of the following is	, ,					Hom'	,			
	(u)										200 (2.4)	il.ot	
		(i)	Availability of Raw			Jearnes		-	oter	illai	шаг	Ke'i	
		(iii)	- * ·	, ,		Irbaniz							
к	(e)		ich one of the following	O									
		(i)	Technical, human, o	•				_					
		(ii)	Socio-Cultural aspec	-	•	-		t rol	e in :	its o	pera	tion	•
		(iii)	Future course of act	ion is decided afte	rsi	te selec	tion.				•		
		(iv)	None of the above.		Î								
	(f)	Org	anizations that produ	ce something oth	erth	nan ph	ysical	pro	duct	s ar	e cal	lled	
		(i)	Transformation org	anizations (ii)	B	ata tra	nsfer	org	aniz	atio	n		
•		(iii)	Service organization	n (iv)		Cultural		_					
	(g)	A forecast that projects a company's sales is an											
	.0/	(i)	Economic Forecast	(ii)		echnol	ogica	l For	recas	st			
			Demand Forecast	. ,		Veather	~			-			

(h)	Quantitative method of forecasting includes?									
•	(i)	Sales force composite	(ii)	Jury of Executive opinion						
	(iii)	Consumer Market Survey	(iv)	Exponential Smoothing.						
(i)	Brea	king up an order and runnin	g par	t of it ahead of schedule is known as						
•	(i)	Overlapping	(ii)	Operations Splitting						
	(iii)	Lot Splitting	(iv)							
(j)	A pr	rocess oriented layout :	• ,							
	(i)	•	uipm	ent and spaces/offices to provide for						
-	(ii)	Addresses the layout requirements of large, bulky projects such as ship and buildings.								
	(iii)	Seeks the best personnel and machine utilization in repetitive or continuous production								
	(iv)	•								
(k)	Ergonomics is the study of ?									
` /	(i)	The design of the machines used to perform a task.								
	(ii)	How a task is accomplished								
	(iii)	The raw material that are consumed in performing a task								
	(iv)	Reducing the number of ste								
(1)	Labour standards are necessary to determine which of the following?									
()	(i)	The steps necessary to perform a task								
	(ii)	Cost and time estimates prior to production								
	(iii)									
	(iv)	•								
(m)	What is the major difference in focus between location decisions in the service									
` ,	sector and in the manufacturing sector?									
	(i)	There is no difference in foc	us							
	(ii)	The focus in manufacturing is revenue maximization while the focus in service is cost minimization								
	(iii)	The focus in service is revenue maximization while the focus in manufacturing is cost minimization.								
	(iv)	The focus in manufacturing is raw material, while the focus in service is on labour.								
(n)	The probability that a machine, part or product will function properly for a given									
		od of time is called?	•							
	(i)	Maintenance	(ii)	Quality control						
	(iii)	Reliability	(iv)	All of the above						
(o)	Qua	lity is defined as:		, ·						
	(i)	The degree of excellence at an acceptable price and the control of variability at an acceptable cost.								
	(ii)	How well a product fits pat	terns	of consumer perferences ?						
	(iii)	The totality or features and characteristics of a product or service that bears on its ability to satisfy stated or implied needs								
	(iv)	Cannot be defined								

198

- JIT is a philosophy of (p) Variability reduction (i) Waste reduction (ii) (iii) Continuous improvement (iv) all of the above Low volume, High-Variety processes are also known as ___ (q) Kanban design should consider (r) (i) Size (ii) Weight (iii) (iv) All of the above Quantity held ABC analysis divides on-hand inventory into three classes based upon The number of units on hand Unit Price (ii) (i) (iv) Annual rupee-value (iii) Annual demand Extra units held in inventory to reduce stockouts are called (t)
 - Reorder Point (i)

Safety Stock (ii)

(iii) IIT inventory

All of the above. (iv)

PART - II

2. Read the following case carefully and answer the questions given below:

National Air is a competitive air express firm with offices around the country. Frank Smith, the Chattanooga Tennesee station manager is preparing his quarterly budget report which will be presented at the southeast regional meeting next week. He is very concerned about adding capital expense to the operation when business has not increased appreciably. This has been the worst quarter he can remember; snow storms,

(30)

earthquakes and bitter cold. He has asked Martha Lewis, field services supervisor, to help him review the available data and offer possible solutions.

Service Methods

National Air offers door to door overnight air express delivery within the U.S. Smith and Lewis manage a fleet of 24 trucks to handle the freight in the Chattanooga area. Routes are assigned by area, usually delineated by zip code boundaries, major streets are key geographical features, such as the Tennessee River. Pickups are generally handled between 3 PM and 6PM Monday through Friday. Driver routes are a combination of regularly scheduled daily stops and pickups that the customer calls in as needed. These call in pickups are dispatched by the radio to the driver. Commitments are made in advance by regular pickup stops, concerning the time the package will be ready, But most call in customer as late a pickup as possible, but before they close (Usually at 5 PM)

When the driver arrives at each pickup location, he or she provides a supply as necessary (An envelope or box if requested) and must receive completed airway bill for each package. Because the industry is extremely competitive a professional courteous driver is essential to retaining customers. Therefore Smith has always been concerned of drivers not rushing a customer to complete his or her package or paperwork.

 $(4x12\frac{1}{2}=50)$

Budget Considerations

3.

5.

Smith and Lewis have found that they have been unable to meet their customer's request for a scheduled pickup on many occasions in the past quarter. While on average drivers are not handling any more business, some days they are unable to arrive at each location on time Smith does not think he can justify increasing cost by \$1200 per week for additional trucks and drivers while productivity (measured in shipments per truck/day) has remained flat. The company has established itself as a low-cost operator in the industry but at the same time committed itself to offering quality service and value for its customer.

- (i) Is the productivity measure of shipments per day per truck still useful? Are there alternatives that might be effective?
- (ii) What if anything can be done to reduce the daily variability in pick-up call-ins? Can the driver be expected to be at serveral locations at once at 5:00 PM?
- How should we measure package pickup performance? Are standards useful (iii) in an environment that is affected by the weather, traffic and other random variables?

PART - III Distinguish between the functions of production planning and control in intermittent

OR What are the major problems in production planning and control?

4. Distinguish between product layout and process layout and explain their advantages and limitations.

OR

Explain the following:

Box-Jenkin Method of Forecasting (a)

and continuous production. Give illustration

- Method Study (b)
- What is 'Total Preventive Maintenance' (TPM)? How is it useful in quality control?

OR

Explain the following:

Six Sigma (a)

- ISO 9000-2000 clauses (b)

6. Discuss the various problems that may come in the way of designing an effective Inventory control system. What do you suggest to win over these problems?

OR

Define routing. What are its objects and advantages? Distinguish between routing and scheduling.