Printed Pages: 8

MBA025

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID: 270212

Roll No.

M.B.A.

(SEM. II) THEORY EXAMINATION, 2014-15

PRODUCTION AND OPERATIONS MANAGEMENT

Time: 3 Hours [Total Marks: 100]

SECTION - A

Attempt all questions.

1X20

- 1 Which of the following is not a method of work measurement?
 - (a) Work sampling
- (b) Stop watch method
- (c) Method study
- (d) All of the above
- 2 When new product development process is a case of:
 - (a) Innovation
- (b) Adaptation
- (c) Diffusion
- (d) Adoption
- The layout in which the machines are placed according of product manufactured by them is:-
 - (a) Process layout
- (b) Product layout
- (c) Fixed layout
- (d) Hybrid layout

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	(d)	All of the above				
	(c)	Finished goods inver	ntorv			
	(a) (b)	WIP Inventory				
10	(a)	Utility inventory	. 111761	ntory:		
10		ch of these is type of	` ′	ntory?		
	(c)	FSN	(d)	EOQ		
	(a)	VED	(b)	SDE		
9	Proc	urement difficulty is l	bases	of which model?		
	(c)	SIMO Chart	(d)	Pie-Chart		
	(a)	Two handed chart'	(b)	Man machine chart		
8	Which of the following is not the chart used in method study?					
	(d)	All of the above				
	(c)	Delphi All of the above				
	(b)	Exponential smoothin	ng			
	(a)	Correlation and regr		1		
7	Which of the following are tools used for forecasting?					
	(d)	Double storey				
	(c)	Single storey				
	(b)	High bay monitor ty	pes			
	(a)	One and half storey				
	ventilators is:-					
6	The building in which very high roofs are used with					
	(c)	Batch	(d)	All of the above		
	(a)	Job shop	(b)	Project		
5	Whic	ch of the following is	type	of operations?		
	(c)	Fire fighting	(d)	None of them		
	(a)	Personal preference		Water		
		ation?				
4			not a	factor while choosing		

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	(d)	Vendor Manag	ged Invento	ory	
	(c)	Distributed Control System			
	(b)	Integrated Sup	ply Chain I	Management	
	(a)	Point of Sale			
	sent by the distributor.				
	orders for its distributor based on demand information				
15		is a proc	ess in whic	ch a supplier generates	
	(c)	Kawakita	(d)	Ishikawa	
	(a)	Juran	(b)	Deming	
14	14 p	orinciples of qual	lity was gi	ven by:-	
	(c)	Reliability	(d)	All of the above.	
	(a)	Functional	(b)	•	
13	Which of the following is the quality attribute?				
	(d)	All of the abo	ve		
	(c)	_	_	ality control department	
	(b)	Preventive and	reactive		
	(a)	Reactive and p	roactive		
	feature?				
12	TQN	A and traditiona	l approach	is different in which	
	(d)	Production exp	editing		
	(c)	Production orga	anizing		
	(b)	Production con	trol		
	(a)	Production plan	nning		
11 Expediting is used in -					

16	-	uality circle is composed of a small grou	-			
	employees who genuinely care about others and who					
	-	rably do work that includes which of the follow	_			
	(1)	Meeting voluntarily with a leader on a reg basis	gular			
	(2)	Identifying the problems				
	(3)	Balancing operations in assembly line				
	(4)	Setting up productivity norms and evaluation	on of			
	` '	production operations				
	(a)	Options (1) and (4)				
	(b)	Options (1) and (2)				
	(c)	Options (1) and (3)				
	(d)	Options (2) and (3)				
17		and are the two well-known met	hods			
	of make or buy decisions.					
	(a)	Matching demand, level capacity				
	(b)	Forecast demand, matching demand				
	(c)	Dispatching, expediting				
	(d)	Dispatching, expediting				
18 .	The	cycle time includes both the as well as the	time			
	along	g with the idle time if any.				
	(a)	Balance delay, service				
	(b)	Service time, productive				
	(c)	Productive, non-productive				
	(d)	Service time, non-productive				
19	Two	effective global strategies adopted by firms	s are			
		and				
	(a)	Strategic alliance, make-to-order				
	(b)	Strategic alliance, make-to-order				
	(c)	Assemble-to-order, make-to-order				
	(d)	Strategic alliance, locating operations abroa	ad			
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- 20 'Kaiser' is:-
 - (a) a word meaning 'continuous improvement'.
 - (b) a method of stock control.
 - (c) a modern way of operating a production line.
 - (d) another word for Quality Circles.

SECTION - B

Case Study

1 Attempt any one of the following:

- **30**
- (a) VIBGYOR Corporation is searching for a new location for establishing new plant. After wide search, the corporation has settled on three locations- Nagpur, Kanpur and Raipur. After this, the corporation has calculated various costs and the results are as follows:

Factors	Location			
	Nagpur (Rs.)	Kanpur (Rs.)	Raipur (Rs.)	
Land Cost	1,50,000	1,75,000	1,95,000	
Raw Material Cost	2 per unit	3 per unit	4 per unit	
Power Cost	3 per unit	2 per unit	4 per unit	
Labour Cost	2 per unit	3 per unit	2 per unit	
Machine Cost	4 per unit	4 per unit	3 per unit	

Now, the corporation is in fix to resolve the problem:

- (i) Help in organization to find out the best location
- (ii) What one factor is considered in this case? What other factors can be considered?

(b) Mansukh Fast Foods Ltd, located in the New Okhla Industrial Estate provides food services in North India. There are 200 employees working in full time with the firm. Currently, the firm generates excessive waste from one of their production lines named Manuskh Paneer Paratha. The average daily waste is around 9.5 percent. This waste is equivalent to the loss of Rs 4 lakh annually. The management of the firm wants to reduce this waste by redesigning the waste tracking system through identifying the root causes. It is estimated that there will be a saving of at least RS 2.5 lakh annually by reducing the waste daily even by 25 percent.

To achieve the waste reduction, the senior management constituted a team comprising an operations manager supervising the line, main employees from the Research and Development unit of the firm, and people from the finance unit. An emergency meeting of the core team was called to implement the process of waste reduction. The team member analyzed the entire process through various steps such as supplier selection, input material, machining process and machine operators. From this, the team members targeted the waste being created at particular points throughout the production line. The main goal of

the team was to determine what data was required to understand the current situation and the impact of any factor of daily waste (in percentage). The team, with the help of a well-known Six Sigma consultant, developed a thorough measurement plan that considered the main reasons behind the waste.

Questions:

- (1) Considering yourself as the head of the team, do you think that DMAIC process of the production line can be developed?

 Justify you response.
- (2) Develop all phases of the DMAIC process to implement Six Sigma.

SECTION - C

Attempt all questions. Each question carries equal marks.

1 Why is Layout important? Classify Layout. Explain advantages and disadvantages of Layout.

OR

1 Differentiate between Production Management and Operations Management. List the advantages that are desired from an efficient production system.

2 Explain how Method study can lead to higher productivity? With a flow chart describe the present method of handling parcels of medium size in the railway parcel office.

OR

- What are the different classifications of forecasting methods? How forecasting helps production department of manufacturing firm in its advance manufacturing planning?
- What is Inventory Management? Discuss the objective of Inventory Management. What are various inventory control techniques?

OR

- 3 Write short notes on any TWO
 - (a) ABC Analysis
 - (b) Master Production Schedule
 - (c) Routing and Scheduling
- Write down Deming's 14 principles for management. Write a short note on PDCA cycle

OR

4 Good Organization is a key factor in the management of maintenance. Discuss. Can TPM logic be extended to service?

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