Dura	tion: 2 ½ hours Maximum Marks: 75
N.B.:	1) All questions are compulsory.
	2) Figures to the right indicate full marks.
Q1) a	a) Fill in the blanks (Any 8):
1)	Productivity is the quotient obtained byoutput by one of the factors of production
	a) Dividing b) Subtracting c) Multiplying d) Adding
2)	Productivity is theof all available resources.
	a) Optimization b) Maximization c) Legalization d) Utilization
3)	There are types of production systems.
	a) Two b) Four c) Six d) Five
4)	The flow of production is not continuous in production system.
	a) Intermittent b) Mass c) Flow d) Variety
5)	Volume of is generally small in intermittent production system.
	a) Production b) Consumption c) Input d) Variety
6)	ISO stands for International Organization for
7)	a) Standardization b) Service c) Sale d) Standard
7)	Productivity is the quotient obtained by dividing by one of the factors o
	production. a) Output b) Input c) Quality d) Cost
8)	 a) Output b) Input c) Quality d) Cost is the optimization of all available resources.
0)	a) Productivity b) Quality c) Efficiency d) Variety
9)	Kaizen is the practice of improvement.
)	a) Continuous b) Break c) Quick d) Non-Continuous
10)	The products are customized under production system.
10)	a) Job b) Batch c) Mass d) Continuous
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	V. V
(1) b)	State whether the following are True or False (Any 7): 7 Marks
	Volume output is generally small in case of job production system.
1 C Y 1 X	Batch production is the manufacture of a product in lots at intervals.
	Product development means devising a product to meet the exact requirement of the
	market.
4	Staple products are the low prices products that consumers buy on a regular basis.
5	Product design means determining the shape, standard and pattern of the product.
6	Plant location refers to area where the plant will operate to produce goods or services.
7	Lean thinking is a decision making business methodology used in automotive industries.
8	Aircraft manufacturing uses fixed position layout.
9	Process layout is known for its flexibility.
10)	Line layout is the arrangement of machines and equipment in a sequence in which they would be used in the manufacturing process.
3000	would be used in the manufacturing process.

O 2 a) What are the functions of a production managers?	Q Moulto	
Q.2 a) What are the functions of a production managers?	8 Marks	
b) Explain continuous production system with examples.	7 Marks	
OR OR		
a) What are the characteristics of good product design?	8 Marks	
b) Explain the objectives of production management.	7 Marks	
Q.3 a) State and explain the factors affecting product quality.	8 Marks	
b) Define productivity & explain different ways to improve productivity.	7 Marks	
OR		
a) Explain the principles of quality management.	8 Marks	
b) Explain the concept of quality circle & quality assurance.	7 Marks	
Q.4 a) Explain fourteen points of Deming's philosophy of quality.		
	8 Marks	
b) What are the principles of Total Quality Management?	7 Marks	
OR	/ WILLIAM	
a) Explain seven Quality control tools.	8 Marks	
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b) Write in detail about Kaizen's philosophy and approach to quality.	7 Marks	
Q.5 a) Discuss how lateral thinking provokes creativity.	8 Marks	
b) Explain the following terms:	7 Marks	
1. Muri 2. Mura 3. Muda		
OR		
Q5) Write a Note on any three from the following: (5 Marks each)	15 Marks	
1) DMAIC	15 Warks	
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2) Kanban		
3) Job Production System		
4) Product Life Cycle		
5) Ergonomics		

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