

Q.P. 31194

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Maximum Marks: 75

Duration: 2 Hour 30 Minutes

Note. 1) All the questions are compulsory.

2) Figures to the right indicate full marks.

Q. 1 A	Fill in the blanks	1 mark each	8 * 1	8
1	New-product introduction			
2	Production			
3	Material Management			
4	Quality			
5	Batch type			
6	Inventory cost			
7	Productivity			
8	Production process			
9	ISO 14001			
10	Holistic quality management			

Q. 1 B Math the following

1 mark each

7*1

7

A	B	1 mark each	7*1	7
Inventory	Stock			
Intermittent	Bath Type production			
The Juran philosophy	Fitness for use'			
Work under 7 Zero banner	Total Quality Management			
Quality control	Regular inspection			
Nondurable goods	Soap , bread,milk			
Production function	Creation of useful products			
Philip B Crosby	'Quality is free'			
Factory layout	Activities inside the factory			
Bridge construction	Static Product Layout			
	Total			15

Q. 2

02

A	Any 8 objectives like	1/2 mark each		8*1/2		4
	To control wastage, to raise efficiency, reduce damage, provision of job, provide excellent environment, reduce the congestion of 3M, effective use of installed capacity					
	Any 8 factors considered for designing Plant layout	1/2 mark each		8 * 1/2		4
	Type of industry, type of production, location, size of machinery, facilities of worker, Govt. policies, design of production process					
	Total					8
B	Meaning or purchasing	1 Mark				1
	Explanation of 6 principles of Purchasing	1 mark each		6 * 1		6
	Right quantity, right quality, right price, right time, right supplier, right terms					
						7
				Total		15
OR						
C	4 aspects of New Product Design	2 marks each		4 * 2		8
	Explanation of Functional design, aesthetic design, technical & production, packaging and marketing					

Quality objectives, cost objectives, capacity utilization, environment protection, maximisation of profit etc

D	Explanation of any 7 multiple objectives of Production Management	1 mark each	7 * 1			7
Total						15

Q. 3

A	Definition, importance of Inventory	3 marks				3
	Any 5 functions with proper explanation	1 mark each		5 * 1		5
Total						8
B	Fullform and explanation of DMAIC	4 marks				4
	Fullform and explanation of DFSS	3 marks				3
Total						7

OR

C	Formula and calculation of Safety stock	2 marks each		4 * 2		8
D	Meaning, importance, equipments of material handlingsystem.					7
Total						15

Q. 4

A	Explanation of 8 building blocks of TQM	1 mark each		8 * 1		8
B	Meaning of Stock levels	1 mark each				1

04

Explanation of any 3 methods of following	2 marks each	3 * 2	6	7
Fixed time system, open access bin, re-order level system, two bin system				
			Total	15

OR

Definition and importance of Quality Circles . Explanation of basic philosophy of quality circles. Explain with proper example					8
Explanation of any 7 functions of materials management from the below list	1 mark each	7 * 1			7
			Total		15

Q. 5

Explanation of any 4 components from the following list. (support answer with proper example)	2 marks each	4 * 2	8	
Reliability, features, durability, performance, serviceability, aesthetics etc.				
Explanation, formate, benefits methodology of Kaizen			7	
			Total	15