Q.P. Code: 31194

Maximum Marks: 75 **Duration: 2 Hours & 30 Minutes**

Note. 1) All the questions are compulsory.
2) Figures to the right indicate full marks.

Q.1. A. Fill in the blanks and rewrite the complete sentence (Any 8) **08**

1) Market pull, technology push and inter-functional view are strategies for _____.
a) Product development b) process design c) Quality management
d) New-product introduction.

2) _____ is described as creation of a utility and services.
a) Product process b) Operation c) Production d) Inventory.

3) _____ includes jobs like dropping, releasing, holding and stacking of material.
a) Purchase Management b) Inventory management c)Material Management
d) Process Management

4) _____ is the performance of the product as per the commitment made by producer.
a) Total Quality Management b) Purchase material c) Quality
d) Product development

5) Uniform making, readymade garments, pharmaceutical production are _____ production system.
a) Batch type b) Mass type c) Job type d) Process type

6) _____ include financial costs, equipment handling costs, ordering cost.
a) Production cost b) Processing c) Inventory cost d) Purchasing.

7) _____ is the ratio of output to input in organization.
a) Safety cost b) Inventory ratio c) Performance index d) Productivity

8) Inputs-Conversion-Output are basic factors of _____.
a) Production process b) ABC analysis c) Marketing view
d) Inventory turnover ratio.

9) _____ International specification for an environmental management system.
a) ISO 19011 b) ISO 14001 c) ISO 9000 d) ISO 16949.

10) _____ views quality as function of entire enterprise not of any particular department or product.
a) Cost of quality b) Holistic quality management c) Quality improvement
d) Kaizen

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Q.1. B. Match the following (Any 7) **07**

Group A		Group B	
1	Inventory	A	'Fitness for use '
2	Intermittent	B	Regular inspection
3	The Juran philosophy	C	Creation of useful products
4	Work under 7 Zero banner	D	'Quality is free'
5	Quality control	E	Stock
6	Nondurable goods	F	Activities inside the factory
7	Production function	G	Batch Type production style
8	Philip B Crosby	H	Static Product Layout
9	Factory layout	I	Soap, bread, milk
10	Bridge construction	J	Total Quality Management

Q.2

A) Explain objectives of the Plant Layout. Describe factors to be considered at the time of designing Plant Layout. **08**

B) Explain briefly six principles of Purchasing. **07**

OR

C) Explain the aspects of the new Product's Design? **08**

D) What are the multiple objectives of Production Management? **07**

Q.3

A) What is Inventory? Explain functions of Inventory. **08**

B) Explain 'DMAIC' AND DFSS' in reference to Six Sigma. **07**

OR

C) Priya Electrical is consuming Electric Motors as follows , normal uses 200 units per week, minimum uses 150 units per week, maximum uses 225 units per week, reorder quantity 230 units, reorder period or lead time 3 to 5 weeks . With this information, answer the following. Calculate Safety Stock, Reorder Level , Maximum Level Consumption & Average Inventory. **08**

D) Explain briefly Material Handling System. **07**

Q.4

A) Explain eight building blocks of Total Quality Management. **08**

B) Describe different methods of controlling Stock Levels. **07**

OR

C) Explain why Quality Circle is called as People-Building Philosophy? **08**

D) Explain Integrated Systems Approach for Materials Management. **07**

Q.5

A) Explain quality components in Manufacturing System. **08**

B) Explain briefly Kaizen strategy of Massaki Imai. **07**

OR

C) Write a short notes (Any 3) **15**

1) Lean Thinking.
2) EOQ
3) Material Flow System
4) Process Design
5) Mass Type Production System

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