



# MAHARISHI UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

MAHARISHI ROAD, MANGLA, BILASPUR (CHHATTISGHAR)-495001

FINAL EXAM : SEMESTER-II, SESSION 2021-22

**COURSE –MBA, PAPER –IV , SUBJECT CODE – MBA 204**

**SUBJECT – PRODUCTION AND OPERATIONS MANAGEMENT**

**Max Marks : 70**

**Min Pass Marks : 28**

- All questions are compulsory.
- Be precise in your answers.

**Que 1 Multiple choice: Read the following questions carefully and choose the suitable answer:**

10X1=10

**(i) \_\_\_\_\_ is the basic activity of all Industrial Units :**

- A. Production
- B. Sales
- C. Advertisement
- D. Marketing

**(ii) Which is not a primary factor of affecting the plant location, from the following:**

- A. Supply of Capital
- B. Labour Supply
- C. Natural Factors
- D. Raw Materials

**(iii) A good Layout requires determining :**

- A. Material handling requirements
- B. Capacity and space requirements
- C. Cost of moving between various work areas
- D. All of the above

**(iv) Which of the following is a function of inventory?**

- A. To separate parts of the production process
- B. To provide a stock of goods that will provides a selection for customers
- C. To take advantage of quantity discounts
- D. All of the above

**(v) During which century the manufactures began to include quality process in quality practices:**

- A. 17<sup>th</sup> century
- B. 18<sup>th</sup> century
- C. 19<sup>th</sup> century
- D. 20<sup>th</sup> century

**(vi) All of the following are the elements of TQM system except:**

- A. Leadership
- B. Communications
- C. Measurement
- D. Detentions

**(vii) The Father of Statistical Quality Control is :**

- A. F. W. Taylor
- B. Joseph M.Juran
- C. Philip Cosby
- D. WalteShewhart

**(viii) As Production system move from projects to batch production to mass production to continuous production**

- A. Processes become more flexible
- B. Customer involvement with the process increases
- C. Products become more standardized
- D. Demand volumes decreases

**(ix) A Big advantage of a process layout is :**

- A. Its flexibility
- B. Its low cost
- C. The ability to employ low skilled labor
- D. Its high equipment utilization

**(x) The moving assembly line was developed by:**

- A. Elton Mayo
- B. F.W.Taylor
- C. Clark Cable
- D. Henry Ford

**Que 2 Short Answer (Any Five) –**

5x4=20

- a) Define Production Management? Describe input transformation output relationship in an automobile factory.
- b) What is meant by aggregate production planning? Why it is required?
- c) What are the major factors that affect the Industrial productivity?
- d) Explain various principles of Material Handling.
- e) Which are the famous models of TQM?
- f) Write short notes on any two of the following –
  - i. Work Study
  - ii. Industrial Safety
- g) Differentiate between “Product Layout” and “Process Layout”.
- h) Describe the different types of Production System.

**Que 3 Long Answer (Any Five) –**

8x5=40

- a) Plant maintenance is an important services function of modern production management .Why?
- b) Discuss the importance of location for a manufacturing plant, a bank branch and a mall.
- c) Explain production planning and control as applicable in repetitive manufacturing
- d) Explain the basic economic order quantity model of managing inventory.
- e) Define the following in brief-
  - i. EOQ
  - ii. ISO
  - iii. TQM
- f) What do you mean by JIT? Explain the basic elements of JIT.
- g) Explain types of manufacturing systems mainly Job type and Batch type manufacturing system?

- h) Define the process of plant layout in brief with suitable examples of each.
- i) As A Plant manager of ceramics product how will you select the appropriate location of plant? Discuss consideration of various factors affecting it.
- j) Write Short Notes on –
  - i. Capacity Panning
  - ii. Inventory Control
  - iii. KANBAN

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**Answer**

**1-B**

**2-C**

**3- C**

**4-B**

**5- B**

**6-D**

**7-B**

**8- C**

**9- C**

**10- A**