



MAHARISHI UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

MAHARISHI ROAD, MANGLA, BILASPUR (CHHATTISGARH)-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. 17th century
 - B. 18th century
 - C. 19th century
 - D. 20th 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 Crosby
- D. Walter Shewhart

(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 decrease

(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

Answer

1-B

2-C

3- C

4-B

5- B

6-D

7-B

8- C

9- C

10- A