

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)**  
**EXAMINATION: DECEMBER - 2023**  
**SEMESTER – II**

Sub : Introduction to Production & Operations Management (BBA22-215)

**Date : 23/12/2023**

**Total Marks : 60**

**Time: 2.00 pm To 4.30 pm**

- Instructions:**
- 1) All questions are compulsory.
  - 2) Figures to the right indicate full marks.

**Q. 1. Choose the most appropriate option. (05)**

1. .... is the administration of business practices to create the highest level of efficiency possible within an organization.
  - a) Production management
  - b) Manufacturing management
  - c) Operations management
  - d) Industrial Engineering
2. A prominent mathematician and engineer ..... promoted an economic analysis of work and pay on the basis of skill requirement.
  - a) Adam Smith (1776)
  - b) Eli Whitney (1798)
  - c) Richard Trevithick (1802)
  - d) Charles Babbage (1832)
3. Which of the following production layout is generally adopted for the manufacture of large parts and assemblies.
  - a) Product layout
  - b) Hybrid layout
  - c) Functional or Process layout
  - d) Fixed layout
4. Why the Material Handling is considered to be very important?
  - a) the cost of production can be reduced to an exceptional level
  - b) large portion of the manufacturing cost is made of material handling costs
  - c) safety of workers, machines and equipment
  - d) All of the above
5. .... involves repairing equipment and machinery after a breakdown or malfunction
  - a) Preventive Maintenance
  - b) Predictive Maintenance
  - c) Corrective Maintenance
  - d) Condition-Based Maintenance

**Q. 2. State True / False (05)**

1. Production management also deals with decision-making regarding the quality, quantity, cost, etc., of production.
  - a) True
  - b) False
2. In a Process Layout, the machines and equipment are arranged in a straight line according to the sequence of operations required to manufacture a specific product.
  - a) True
  - b) False

3. The objectives of an effective plant layout are to minimize movement, facilitate workflow and maximize space use.
  - a) True
  - b) False
4. The movement of material from one organization to another is categorized as material handling work.
  - a) True
  - b) False
5. Master Production Schedule (MPS) is a detailed plan that specifies the quantity and timing of finished products to be produced.
  - a) True
  - b) False

**Q. 3. Write Short notes on (Any Three) (15)**

1. Types of Maintenance
2. Objectives of Materials Handling Processes
3. Concept of Operations Management
4. Objectives of Plant Layout
5. Importance of Capacity Planning

**Q. 4. Answer in detail (Any Two) (20)**

1. Explain the various factors affecting the Plant Location.
2. What are the various types of Plant Layouts? Explain with suitable examples.
3. What is the concept of Material Requirement Planning (MRP)? Explain the importance and elements of MRP.

**Q. 5. Case study (15)**

**ABC Manufacturing Ltd.**

ABC Manufacturing Ltd. is a leading manufacturer of household appliances such as refrigerators, washing machines, and air conditioners. The company has been in operation for over three decades and has a strong reputation for quality and innovation. The management of ABC Manufacturing Ltd. is now considering the possibility of redesigning the plant layout to improve production efficiency and reduce costs. As a production manager, you have been tasked with analyzing the current plant layout and recommending a new layout that will meet the company's objectives.

**Questions:**

**Questions 1:** What are the key objectives of a plant layout for a manufacturing facility?

**Questions 2:** What are the different types of plant layout?

**Questions 3:** How can ABC Manufacturing Ltd. determine the most suitable plant layout for its operations?

**Questions 4:** What are the advantages and disadvantages of a product layout compared to a process layout?