

WORK SHEET
UNIT-V

1. FMS stands for:
 - A) Flexible Manufacturing System
 - B) Fast Manufacturing System
 - C) Functional Manufacturing Setup
 - D) Flexible Machine Setup

Answer: A) Flexible Manufacturing System

2. The main objective of an FMS is:
 - A) Reduce flexibility
 - B) Increase production flexibility and efficiency
 - C) Eliminate automation
 - D) Increase manual work

Answer: B) Increase production flexibility and efficiency

3. Which of the following is an important component of an FMS?
 - A) CNC machines
 - B) Material handling systems
 - C) Computer control systems
 - D) All of the above

Answer: D) All of the above

4. An FMS layout refers to:
 - A) Product design
 - B) Arrangement of machines and workstations
 - C) Inventory management
 - D) Quality standards

Answer: B) Arrangement of machines and workstations

5. One major benefit of FMS is:
 - A) Increased setup time
 - B) Reduced flexibility
 - C) Higher productivity
 - D) More manual operations

Answer: C) Higher productivity

6. Computer Aided Quality Control mainly focuses on:
 - A) Product inspection and quality assurance
 - B) Product marketing

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- C) Material purchasing
- D) Packaging operations

Answer: A) Product inspection and quality assurance

7. Off-line inspection is performed:
- A) During machining
 - B) After removing the part from the machine
 - C) Before production only
 - D) During packaging only

Answer: B) After removing the part from the machine

8. On-line inspection is carried out:
- A) During the manufacturing process
 - B) After product delivery
 - C) During storage
 - D) Before design

Answer: A) During the manufacturing process

9. Which inspection method requires physical contact with the workpiece?
- A) Laser inspection
 - B) Optical inspection
 - C) Contact inspection
 - D) Machine vision inspection

Answer: C) Contact inspection

10. Which is an example of a non-contact inspection method?
- A) Probe measurement
 - B) Vernier caliper
 - C) Optical scanning
 - D) Micrometer measurement

Answer: C) Optical scanning

11. CMM stands for:
- A) Computer Measurement Machine
 - B) Coordinate Measuring Machine
 - C) Central Measuring Method
 - D) Coordinate Manufacturing Machine

Answer: B) Coordinate Measuring Machine

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12. A Coordinate Measuring Machine is used for:
- A) Material handling
 - B) Dimensional measurement of components
 - C) Product assembly
 - D) Inventory control

Answer: B) Dimensional measurement of components

13. Machine vision systems primarily use:
- A) Cameras and image processing
 - B) Cutting tools
 - C) Conveyors
 - D) Sensors only for temperature

Answer: A) Cameras and image processing

14. CIM stands for:
- A) Computer Integrated Manufacturing
 - B) Computerized Industrial Management
 - C) Central Integrated Manufacturing
 - D) Computerized Inspection Method

Answer: A) Computer Integrated Manufacturing

15. One major benefit of CIM is:
- A) Increased paperwork
 - B) Improved integration of manufacturing activities
 - C) Reduced automation
 - D) Higher production delays

Answer: B) Improved integration of manufacturing activities

Fill in the Blanks

1. FMS stands for Flexible Manufacturing _____.
Answer: System
2. FMS combines machines, computers, and material _____ systems.
Answer: Handling
3. One major benefit of FMS is increased production _____.
Answer: Flexibility
4. Inspection performed after machining is called _____ inspection.
Answer: Off-line
5. Inspection carried out during production is called _____ inspection.
Answer: On-line

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6. Physical contact with the workpiece is required in _____ inspection.

Answer: Contact

7. CMM stands for Coordinate Measuring _____.

Answer: Machine

8. Machine vision uses cameras and image _____ techniques.

Answer: Processing

9. CIM stands for Computer Integrated _____.

Answer: Manufacturing

10. A key benefit of CIM is better _____ of manufacturing functions.

Answer: Integration

Fill in the Blanks:

1. System
2. Handling
3. Flexibility
4. Off-line
5. On-line
6. Contact
7. Machine
8. Processing
9. Manufacturing
10. Integration



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