

Question 1 What are the two basic types of production systems?

- A Automated and manual
- B Intermittent and non-intermittent process
- C Normal and continuous process
- D Continuous process and batch

Answer: B

Question 2 The type of processing structure that is used for producing discrete products at higher volume is:

- A Batch
- B Project Layout
- C Assembly Line
- D Continuous Process

Answer: C

Question 3 What are the benefits of automated production lines?

- A Low amount of direct labour
- B High production rate
- C Minimal work-in-progress and production lead time
- D all of these

Answer: D

Question 4 Match the following:

- | Robot part | Function |
|--------------------|--|
| a. Manipulator arm | 1. For holding a piece or tool |
| b. Controllers | 2. Move the manipulator arm and end effector |
| c. Drives | 3. Number of degrees of freedom of movement |
| d. Gripper | 4. Delivers commands to the actuators |
- A a-1, b-4, c-2, d-3
 - B a-3, b-4, c-2, d-1

C a-3, b-2, c-4, d-1

D a-4, b-3, c-2, d-1

Answer: B

Question 5 Which of the following sensors determines the relationship of the robot and its environment and the objects handled by it

A Internal State sensors

B External State sensors

C Both (A) and (B)

D None of the above

Answer: C