



### SECTION-B

2. Explain the working of Simple Servo system with mechanical feedback with suitable diagram.
3. Discuss various logic functions used in PLC.
4. Explain different types of sensors used in robots.
5. Discuss the applications of industrial robots in material transfer and machine loading/unloading.
6. Explain with suitable diagram the function of teach pendant box.

### SECTION-C

7. What are Robotic End-effectors? Give its types and applications?
8. Discuss basic structure and working of single acting and double acting cylinders?
9. Discuss the applications of personal computers in various control and automations functions.

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