



Retake Exam

Correction of the exercise 1: (04.0 pts)

1. The cycle time of a PLC varies depending on: (1.0 pts)

- Program Size
- Calculation Complexity
- Number of Inputs/Outputs
- CPU Power
- Process Requirements

2. PLC programs are processed in a specific cycle, typically as follows: (1.5 pts)

- Input scan
- Program Processing
- Output Update
- External Communications
- Self-Diagnosis

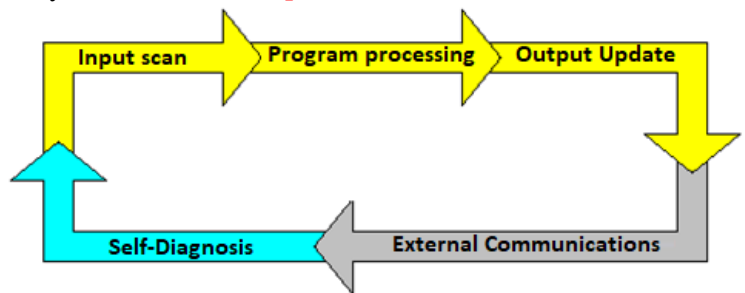


Figure 1. Operating Principle of a PLC

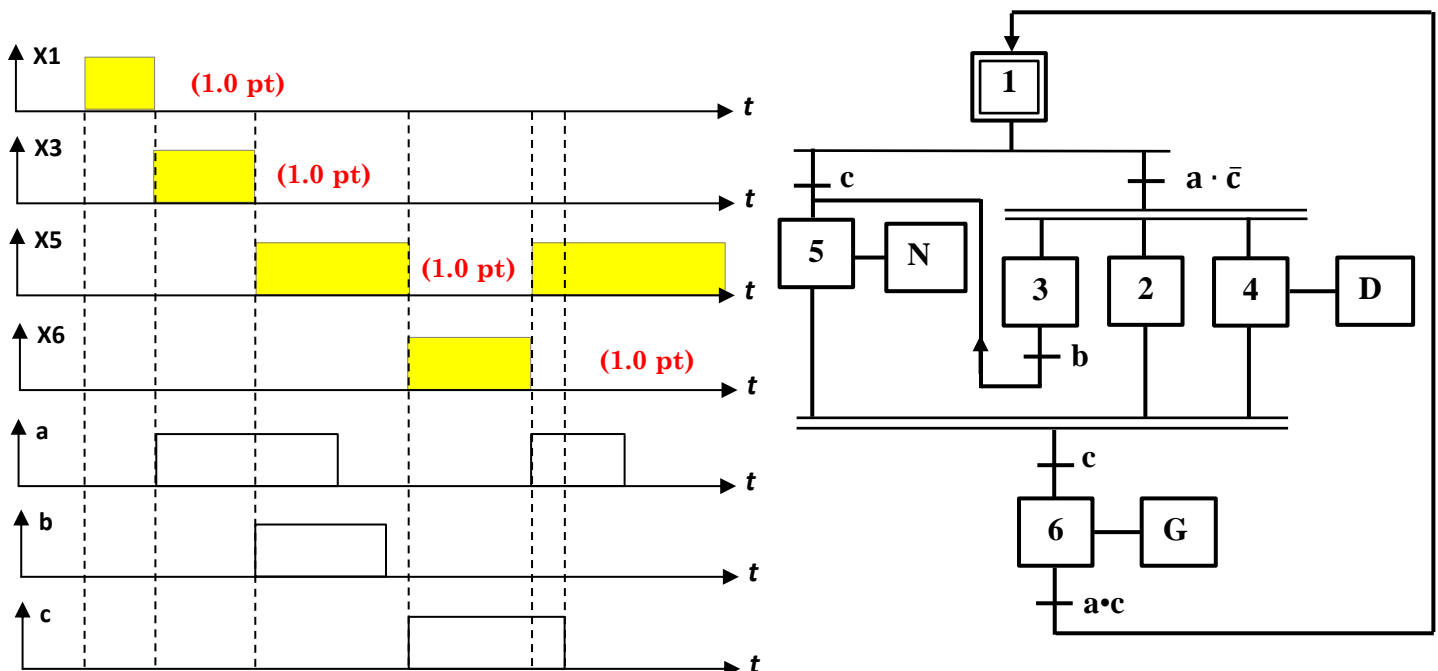
3. The main components that make up an automated system are: control part (CP), operative part (OP). (0.5 pts)

4. **Sensors:** distance sensor, pressure sensor.

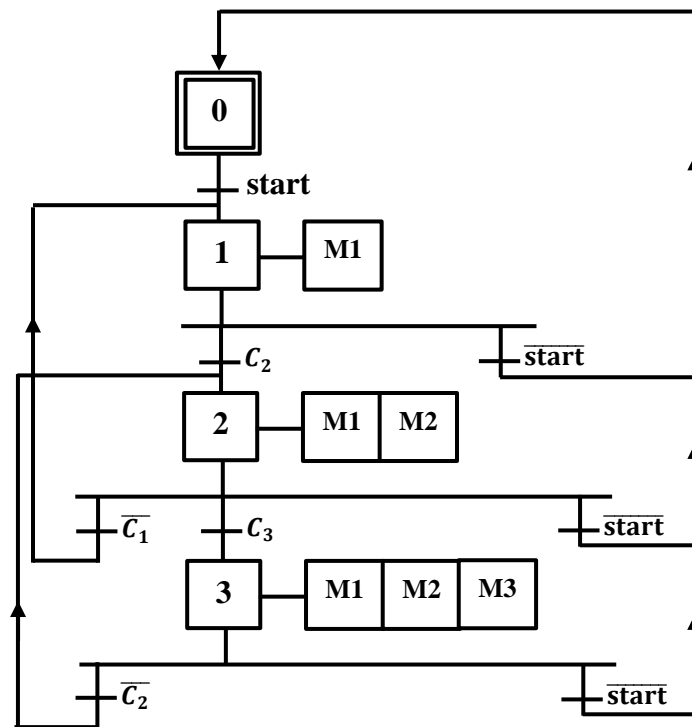
Pre-actuators: speed variator, relay.

Actuators: DC motor, cylinder, displayer. (1.0 pts)

Correction of the exercise 2: (04.0 pts)



Correction of the exercise 3: (6.0 pts)



Correction of the exercise 4: (6.0 pts)

