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Total No. of Questions: 09

B.Tech.(Automation & Robotics) (Sem.-7) PROGRAMMING INDUSTRIAL AUTOMATION SYSTEMS

Subject Code: BTAR-702 M.Code: 71807

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1 Write briefly:

- a) What are continuous sequential processes?
- b) What is the use of ladder logic methodology?
- c) Write the merits of PLC
- d) Write the advantages of relay logic.
- e) What is the application of ladder diagram?
- f) What is latching?
- g) Write addition function.
- h) What is the function of on-delay timers?
- i) What is NOT function?
- i) What are convert functions?



SECTION-B

- 2. Discuss the various process variables.
- What is the function of relays? Write its different types. 3.
- 4. Compare the on-delay and off-delay timers.
- 5. Discuss the data moves instructions.
- 6. Explain AND and OR function with suitable example.

SECTION-C

- 7. Discuss the PLC architecture and explain its input and output module.
- 8. Write notes on:
 - a) Up-counter
- Explain the PLC FIFO and LIFO functions. www.FirstRan 9.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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