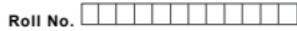


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Total No. of Questions : 18

Total No. of Pages : 02

B.Tech. (Automation & Robotics) (Sem.-7) PROGRAMMING INDUSTRIAL AUTOMATION SYSTEMS Subject Code : BTAR-702 M.Code : 71807

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

Write briefly :

- Name the different types of relays.
- 2. What is the purpose of the programming unit?
- 3. How are process variable classified?
- 4. Define different sequential process
- 5. State advantages of industrial automation.
- 6. Write some additional capabilities of PLC.
- Define STL.
- 8. Define the concept of inter locking function of PLC.
- 9. Name different type of counters.
- 10. Write down the data move instructions.



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SECTION-B

- 11. What are IEC61131 international standard for PLC?
- 12. Explain timer and its classification.
- Discuss the memory structure of PLC.
- 14. Discuss and explain the application of PLC.
- 15. With example, illustrate ladder logic function.

SECTION-C

- Write a note on :
 - a) Ladder Logic Methodology
 - b) Bit Logic Instruction
- wed one with plant? 17. What data handling instructions are followed in PLC?
- 18. How does PLC interfacing is done with plant? Explain it with an example.

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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