

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) (Internet of Things and Cyber Security Including Block Chain Technology) (Sem.-7,8)

INDUSTRIAL IOT

Subject Code : BTITCS-713-20

M.Code : 93986

Date of Examination : 13-12-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **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

1. Write briefly :

- a) What is cyber manufacturing system?
- b) What is machine vision and how it works?
- c) List at least three benefits of formal verification of systems.
- d) What is the purpose of conditional monitoring?
- e) What is the role of innovation ecosystem in an innovation strategy?
- f) Human machine interaction
- g) Machine Learning
- h) Write applications of CPS.
- i) IIoT
- j) Cyber Physical electronic production

SECTION-B

2. What is an innovation ecosystem and its key elements?
3. Demonstrate cyber manufacturing systems.
4. What are the applications of CPS in machine tools, give details?
5. What is model based engineering of supervisory for CPS?
6. Write a note on types of advance manufacturing.

SECTION-C

7. Discuss the importance of big data in IOT, justify your answer with suitable examples.
8. Explain evaluation model for assessment of cyber physical production system.
9. Describe the strategies to support user intervention.

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.