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Question Paper Code: 6213391

M.C.A. DEGREE EXAMINATIONS, NOV/ DEC 2024

Third Semester

Master of Computer Application

P23CAT32 – INDUSTRY 4.0

(Regulation 2023)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART – A

(10 x 2 = 20 Marks)

1. Define Industry 4.0.
2. Compare the developments in USA and Europe.
3. Infer the Architecture of CPS.
4. What is data science and technology for CPS?
5. Identify the use of QR Codes.
6. How the RFID is used for communication.
7. Specify the function of Industrial Communication.
8. List out the types of Industrial Internet of Things.
9. What is the Cloud Platforms?
10. State the big data in production.

PART – B

(5 x 16 = 80 Marks)

11. (a) Explain about the 10 most important things that will change with Industry 4.0. (16)

(OR)

- (b) Describe the difference between conventional automation and Industry 4.0. (16)

12. (a) Explain about the internet introduction to CPS. (16)

(OR)

- (b) Describe the about Application of CPS in health care domain in detail. (16)

13. (a) Illustrate the process of work piece tagging. (16)

(OR)

- (b) Demonstrate the multi agent systems in detail. (16)

14. (a) Describe the basics on service oriented architecture. (16)

(OR)

- (b) How the process of machine to machine interaction in practice. (16)

15. (a) Develop use of cloud based ERP and MES Solutions. (16)

(OR)

- (b) Illustrate about the IT Security for cloud applications. (16)

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