

Total No. of Questions : 8]

SEAT No. :

PD-4821

[Total No. of Pages : 2

[6404]-351

B.E. (Robotics & Automation)

INDUSTRY 4.0

(2019 Pattern) (Semester - VIII) (411511(B)) (Elective - VI)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.
- 4) Figures to the right indicate full marks.
- 5) Use of Logarithmic Table, Slide rule is Electronic pocket calculator is allowed.

- Q1) a)** What do you mean by Process Automation and Optimization? **[8]**
b) What is mean by Predictive maintenance and Anomaly Detection in Industry? **[10]**

OR

- Q2) a)** What is Cyber Physical System? **[8]**
b) Explain term : **[10]**
i) Digital Twin
ii) Process Automation and Robotization

- Q3) a)** What is Mean by Cloud Programming? **[9]**
b) Draw and Explain Architecture of cloud applications? **[9]**

OR

- Q4) a)** Explain Different Cloud deployment Techniques? **[9]**
b) Explain Fog Computing in detail. **[9]**

P.T.O.

- Q5) a)** Write short note on : **[8]**
- i) Digital Forensics
 - ii) Cyber defense
- b)** Explain terms Data Communication and Networking with its characteristics. **[9]**

OR

- Q6) a)** What is Security system and its function. **[8]**
- b)** Explain Cyber Laws and cyber policies in Industry 4.0? **[9]**
- Q7) a)** Write note on IoT And IIoT case Studies. **[8]**
- b)** What is AI, explain in details. **[9]**

OR

- Q8) a)** Explain IIoT with its benefits and Disadvantages. **[9]**
- b)** Explain the term Industry 4.0 laboratories. **[8]**
