

Total No. of Questions : 8]

SEAT No. :

PB4407

[Total No. of Pages : 2

[6263]-356

B.E. (Robotics & Automation)

INDUSTRY 4.0

(2019 Pattern) (Semester -VIII) (411511B) (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) Figure to the right indicates full marks.
- 3) Neat diagram must be drawn wherever necessary.
- 4) Assume Suitable data if necessary.
- 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) Explain term: [9]
i) Cyber physical system
ii) Impact of Digital Twin

OR

- Q2)** a) What do you mean Digital twin? Explain with example. [8]
b) What is mean by Predictive maintenance and Anomaly Detection in Industry? How it will help for error detection? [9]
- Q3)** a) Explain Different Cloud deployment Techniques? [9]
b) Explain the following: [9]
i) Role of cloud Computing in IoT and Industry 4.0
ii) Virtualization

OR

- Q4)** a) Explain Architecture of cloud applicatons? [9]
b) Explain Fog Computing? With its various types. [9]
- Q5)** a) Explain Cyber Laws and cyber policies in Industry 4.0? [9]
b) Explain terms Data Communication and Networking with its characteristics. [9]

OR

P.T.O.

- Q6)** a) What is Security system and its function [9]
b) Write short note on Information Technology [9]

- Q7)** a) What is AI, explain in details [8]
b) Explain the term Industry 4.0 laboratories [9]

OR

- Q8)** a) Explain IoT and IIoT with its benefits and Disadvantages? [9]
b) Explain different Case studies on IoT and IIoT [8]

