Total No. of Questions : 4]

P-5324

[6188]-293

B.E. (Artificial Intelligence and Data Science) (Insem.) INDUSTRIAL INTERNET OF THINGS (Elective - III) (2019 Pattern) (Semester - VII) (417523(B))

Time : 1 Hour]

[Max. Marks : 30

[Total No. of Pages : 2

SEAT No. :

Instructions to the candidates:

- 1) Solve questions Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

Q1) a) Compare and contrast in between IQT and IIOT. [5]

- b) Discuss various opportunities and challenges in implementation of IIOT. [5]
- c) State and explain the role of IIOT in manufacturing processes with suitable and neat sketch. [5]

(Q2) a) Elaborate various requirements and design considerations of IIOT.[5]

QR

b) Comment on industrial revolutions and significance of IIOT with suitable example. [5]

c) List any 5 advantages and applications of IIOT.

Q3) a) Explain IIOT Sensor Network with neat and suitable diagram. [5]

- b) State and explain in brief the role of sensors and actuators used in industrial processes. [5]
- c) Compare nWave and Ingenue RPMA on the basis of the following parameters : [5]
 - i) Frequency Band
 - iii) Topology

v) Downlink Data Rate

ii) Range

iv) Uplink Data Rate

P.T.O.

[5]

- OR Differentiate between Sensors and Actuators. [Any 5 valid points] [5]
- OR Late between Sensors and L Jain data acquisition and process a sketch. C) List any 5 features of Wi-Fi Backscatter. Explain data acquisition and process automation in IIOT with suitable [5]

And and and a state of the state of the state of the second state

And the solution of the soluti

[5]

[6188]-293