

Total No. of Questions : 4]

SEAT No. :

PC286

[6361]-153

[Total No. of Pages : 1

B.E. (Robotics & Automation) (Insem)

**INTERNET OF THINGS AND MACHINE LEARNING
(2019 Pattern) (Semester - VII) (Elective-IV) (411504B)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Solve Q1 or Q2, Q3 or Q4.
- 2) Neat diagrams must be drawn whenever necessary.
- 3) Use of the electronic pocket calculator is allowed.
- 4) Assume suitable data, if necessary.

Q1) a) Describe an example of IoT service that uses Publish-subscribe communication model. [8]

b) What are the applications of IoT? [7]

OR

Q2) a) Describe an example of IoT service that uses WebSocket-based communication. [8]

b) What is the role of coordinator in wireless sensor network? [7]

Q3) a) Which are the types of Access points in wireless LAN? Explain in brief. [8]

b) What is Target Wake Time? [7]

OR

Q4) a) Explain Message Queue Telemetry Transport (MQTT) of IoT Data Communication Protocols. [8]

b) How is Bluetooth used in IoT? [7]

