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SEAT No. :

PE-289

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[6580]-658

B.E. (Robotics and Automation) (In-Sem)
INTERNET OF THINGS AND MACHINE LEARNING
(2019 Pattern) (Semester - VII) (411504(B)) (Elective - IV)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) Neat diagrams must be drawn wherever necessary.*
- 2) Figures to the right side indicate full marks.*
- 3) Use of Calculator is allowed.*
- 4) Assume Suitable data if necessary.*

- Q1) a)** Explain IoT communication and networking protocols in brief. **[8]**
b) List and explain various IoT services and applications. **[7]**

OR

- Q2) a)** Define IoT. What are its key characteristics? How does IoT contribute to Robotics & Automation? **[8]**
b) Discuss the role of wired and wireless communication in IoT. **[7]**

- Q3) a)** Outline the process of Data Aggregation and Dissemination in IoT **[8]**
b) Discuss the User Datagram Protocol (UDP) in IoT. **[7]**

OR

- Q4) a)** Describe the concept of MAC Protocol in IoT. **[8]**
b) What is Message Queuing Telemetry Transport (MQTT) in IoT? Explain briefly. **[7]**
