

BE/IT/Sem VII/R-19/IOE

[3 Hours]

[80 Marks]

- Note : 1. Question 1 is compulsory  
2. Answer any three out of remaining questions  
3. Assume suitable data where required

Q1 Solve any 4

- Define IOT with Conceptual Framework.
- Compare and contrast RFID with Bluetooth.
- What are the four big data strategies?
- Explain IoT Data Analytics importance.
- Illustrate the components of IEEE 802.11 architecture.

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Q2

- Describe IoT World Forum (IoTWF) Standardized Architecture.
- Explain the concept of Fog Computing with Diagram.

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Q3

- Draw and explain Architecture of MQTT with diagram.
- Explain the role of NoSQL in IoT Data Analytics Challenges.

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Q4

- Discuss Various IoT Application Transport Methods.
- Design the Forest Fire Detection system using IoT sensors.

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Q5

- Explain the architecture of LoRaWAN with its major Characteristics.
- What is the purpose of using a dashboard for data visualization?

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Q6

- Explain ecosystem for IoT enabled Smart Home with respect to sensors, actuators, framework, protocols, storage, data analysis, security etc.
- Write short note on i) CoAP ii) Internet of Behaviour.

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Full form

SA  
AP