

[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 **5**
- Compare and contrast RFID with Bluetooth **5**
- What are the four big data strategies? **5**
- Explain IoT Data Analytics importance **5**
- Illustrate the components of IEEE 802.11 architecture. **5**

Q2

- Describe IoT World Forum (IoTWF) Standardized Architecture. **10**
- Explain the concept of Fog Computing with Diagram. **10**

Q3

- Draw and explain Architecture of MQTT with diagram. **10**
- Explain the role of NoSQL in IoT Data Analytics Challenges. **10**

Q4

- Discuss Various IoT Application Transport Methods. **10**
- Design the Forest Fire Detection system using IoT sensors. **10**

Q5

- Explain the architecture of LoRaWAN with its major Characteristics. **10**
- What is the purpose of using a dashboard for data visualization? **10**

Q6

- Explain ecosystem for IoT enabled Smart Home with respect to sensors, actuators, framework, protocols, storage, data analysis, security etc. **10**
- Write short note on i) CoAP ii) Internet of Behaviour. **10**
