

BE sem VII / IT / (C-scheme) / Nov 24 / 14.11.25

qp code - 95963

Time (3 Hours)

[Total Marks 80]

1/1

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

- Q1 Solve any 4
- a) Define smart object and its Characteristics in brief. 5
 - b) Define the following i) Fog Computing ii) Internet of Behaviour (IoB). 5
 - c) Differentiate briefly Physical design of IoT and Logical design of IoT. 5
 - d) Explain the importance of IoT Data Analytics. 5
 - e) Write a short note on Near Field Communication. 5
- Q2
- a) Explain the IOT enabled Smart Parking system with respect to sensors, Actuators, framework, protocols, data analysis and security. 10
 - b) Explain the following terms 10
 - i) Constrained Application Protocol
 - ii) Streaming Text Oriented Message Protocol
- Q3
- a) Elaborate briefly the simplified 3 layered IoT architecture with neat diagram, 10
 - b) Describe the role of NoSQL in IoT Data Analytics Challenges. 10
- Q4
- a) Explain effective Data Visualization methods With suitable example 10
 - b) Explain in brief the MQTT Architecture with Advantages. 10
- Q5
- a) State the Comparison's of all Protocols used in IOT for cloud Edge. 10
 - b) Describe the Architecture of Advanced Message Queuing Protocol (AMQP) with major application. 10
- Q6
- a) Explain the architecture of RFID with its major applications. 10
 - b) Illustrate the components of IEEE 802.11 architecture with advantages 10