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Question Paper Code: BESB12



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

M.Tech II Semester End Examinations (Regular) - May, 2019

Regulation: IARE-R18

INTERNET OF THINGS

Time: 3 Hours

(ES)

Max Marks: 70

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the question must be answered in one place only

UNIT – I

1. (a) What is the Internet of Things? Discuss in detail about the components required to design IoT Device. [7M]
- (b) Why security is required in IoT? Explain in detail various security model in IoT. [7M]
2. (a) What are the types of RFID tags? Explain the challenges and issues in RFID System. [7M]
- (b) Write short notes on Zigbee. List out different topologies of Bluetooth and explain in detail? [7M]

UNIT – II

3. (a) What are the common characteristics of communication appliances? Explain in detail about the embedded communication software. [7M]
- (b) Explain about Buffer and timer Management. Discuss about software partitioning. [7M]
4. (a) Define stateful and stateless protocols. Write short notes on Debugging protocols. [7M]
- (b) Define module and task. Explain the challenges in CLI based router management. [7M]

UNIT – III

5. (a) Explain the clustering principles in an Internet of things. [7M]
- (b) Explain the ways of impact of the Internet of things onto the systems agility. [7M]
6. (a) Discuss in detail about data synchronization requirements for IoT. [7M]
- (b) Discuss the evolution from the RFID-based EPC Network to an agent-based IoT. [7M]

UNIT – IV

7. (a) Explain the business model for end-user involvement in a supermarket Scenario. [7M]
- (b) What are different types of middleware technologies needed for DiY internet of things? [7M]

8. (a) Explain about business model scenarios for the IoT. [7M]
(b) Explain the role of IoT in EURIDICE intelligent cargo. [7M]

UNIT – V

9. (a) What are the steps involved in the designing RESTful smart things. Explain in detail [7M]
(b) What is future Web of Things. Discuss in brief on Web of Things. [7M]
10. (a) With neat sketch explain about the Web-enabling Constrained Devices. [7M]
(b) Explain the case study for open source e-health sensor system. [7M]

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