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B. TECH. (SEM VI) THEORY EXAMINATION 2018-19 **INTERNET OF THINGS**

Time: 3 Hours Total Marks: 70

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

 $2 \times 7 = 14$

- What is Zigbee? (a)
- Differentiate between Raspberry Pi and desktop computer. (b)
- What are different challenges of IoT. (c)
- Explain different characteristics of IoT. (d)
- What is the role of things and Internet of IoT? (e)
- What is requirement of IoT protocol standardization? (f)
- Why do IoT system have to be self-adapting and self configuring? (g)

SECTION B

2. Attempt any three of the following:

 $7 \times 3 = 21$

- What is relation between WSN and IoT? Explain with example. (a)
- Why security required in IoT? Explain detail various security in Internet of (b) 12.6 Things.
- Write in detail business model scenario for Internet of Things. (c)
- Explain Data visualization and its importance in IoT. (d)
- Explain layered IOT architecture using a figure. (e)

SECTION C

3. Attempt any one part of the following:

- Explain the application of IoT in home automation systems. (a)
- What is threat analysis in Internet of Things? Explain detail threat analysis. (b)

4. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- Explain in detail access control and message integrity of Internet of Things. (a)
- (b) How Big Data can be used in IoT? Explain in detail.

5. Attempt any one part of the following:

 $7 \times 1 = 7$

- What is Role of the Internet of Things for Increased Autonomy and Agility in (a) Collaborative Production Environments?
- Explain the concepts and terminology of RFID Application. (b)

Attempt any *one* part of the following: 6.

 $7 \times 1 = 7$

- Explain with example MQTT Protocol. What is role of MQTT protocol in IoT? (a)
- What is Identity management in Internet of Things? Explain any 2 Identity (b) management techniques of Internet of Things.

7. Attempt any one part of the following:

 $7 \times 1 = 7$

- Discuss What are the components and communication media required for (a) making smart building.
- Explain about Internet of Thing using PLC technology. (b)