Paper Id: 120507   **Roll No:**

B. TECH
(SEM-V) THEORY EXAMINATION 2019-20
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 x 7 = 14**

    a.   What are different components required for IoT device?.

    b.   Draw building block of IoT?

    c.   Explain WoT?

    d.   Explain Two Pillars of the Web?

    e.   Explain Cloud of Things?

    f.   What is IoT Analytics?

    g.   What is ZigBee?

SECTION B

2. **Attempt any *three* of the following:**   **7 x 3 = 21**

    a.   What is the role of things and Internet in IoT?

    b.   What do you mean by RFID based EPC network?

    c.   Distinguish between web of things and Internet of Things?

    d.   What is IEEE 802.15.4 protocol, how it is related to IoT?

    e.   What is identity management of Internet of Things? Explain any two identity management techniques of internet of things?

SECTION C

3. **Attempt any *one* part of the following:**   **7 x 1 = 7**

    (a)   Explain detail design guidelines for Internet of Things?

    (b)   Explain in detail clustering principle in Internet of Things?

4. **Attempt any *one* part of the following:**   **7 x 1 = 7**

    (a)   Why security required in IoT? Explain in detail various security model in IoT?

    (b)   What is threat analysis in Internet of Things? Explain detail threat analysis?

5. **Attempt any *one* part of the following:**   **7 x 1 = 7**

    (a)   Explain in detail business model and business innovation in Internet of Things?

    (b)   Explain in detail application of Internet of Things in city automation and home automation?

6. **Attempt any *one* part of the following:**   **7 x 1 = 7**

    (a)   Explain an emerging industrial structure for IoT?

    (b)   Explain in details IoT Architecture layers?

7. **Attempt any *one* part of the following:**   **7 x 1 = 7**

    (a)   Explain TCP/IP vs IoT protocol sack?

    (b)   Write a note on:
            i) Security and Privacy for IoT
            ii) Physical IoT Security