TCS/TIT-604

B. TECH. (CS/IT) (SIXTH SEMESTER) MID SEMESTER EXAMINATION, 2019

INTERNET OF THINGS

Time: 1:30 Hours

Maximum Marks: 50

- Note: (i) This question paper contains two Sections.
 - (ii) Both Sections are compulsory.

Section—A

- 1. Fill in the blanks/True-False: (1×5=5 Marks)
 - (a) Father of IoT _____.
 - (b) Tree topology is also called as ______
 topology.
 - (c) The key of IoT is _____
 - (d) Internet connectivity is not required in IoT. (True/False)
 - (e) M2M communication doesn't, include wireless communication. (True/False)
- 2. Attempt any five parts: (3x5=15 Marks)
 - (a) What do you understand by the term IoT?

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- (b) Explain the 3.0 view of IoT.
- (c) Explain RFID.
- (d) What is M2M communication?
- (e) Briefly explain the components of IoT.
- (f) Explain WSN.

Section—B

- 3. Attempt any two parts of choice from (a), (b) and (c). (5×2=10 Marks)
 - (a) Give a detailed explanation about SCADA.
 - (b) Explain IEEE 802.15.4 with its architecture.
 - (c) Write short notes on the following:
 - (i) Middleware of IoT
 - (ii) BACNet protocol
- 4. Attempt any two parts of choice from (a), (b) and (c). (5×2=10 Marks)
 - (a) Explain the four pillars of IoT.
 - (b) Differentiate between Web 1.0, Web 2.0 and Web 3.0 and give a suitable example.
 - (c) What do you understand by the concept of IoT? Briefly describe the functioning of IoT with an example.

(3)

- 5. Attempt any two parts of choice from (a), (b) and (c). (5×2=10 Marks)
 - (a) Give a detailed explanation about ZigRee protocol.
 - (b) Define the following:
 - (i) M2M and WSN protocol
 - (ii) SCADA and RFID protocol
 - (c) Explain the various applications of IoT.

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