

Roll No.

--	--	--	--	--	--	--

Paper Code: TCS-505

Mid Semester Examination 2019-20  
Course- B.Tech(CS/IT) Sem V  
Paper Name – Internet of Things (IoT)

Time: 1:30 Hour

MM: 50

Note:

- I. This question paper contains two sections.
- II. Both Sections are compulsory.

Section-A

- Ques 1. Answer the following: (1\*5=5)
- a) Zigbee specification are based on -----Protocol.
  - b) Machine to machine (M2M) is also known as -----
  - c) -----numbers of bits are present in IPv6 address.
  - d) Term IoT is coined by -----.
  - e) MQTT stands for -----.

- Ques 2. Attempt any five: (3\*5=15)
- a) Define RFID.
  - b) explain IOT communication models?
  - c) Explain TELNET protocol?
  - d) Explain IP addressing in IOT?
  - e) Define Near Field Communication.
  - f) Explain physical design of IOT?

Section-B

Each Question contains three parts a, b & c. Attempt any two part of choice from each question.

- Ques 3. (2\*5=10)
- a) Explain functional blocks of IoT.
  - b) Explain five-layer IOT architecture using suitable diagram.
  - c) Explain characteristics of IOT.

- Ques 4. (2\*5=10)
- a) What is M2M communication, what is basic difference between M2M and IOT.
  - b) What are the various network and communication technologies can be used to implement an IOT application?
  - c) Why does IOT system have to be self-adapting and self-configuring in nature.

- Ques 5. (2\*5=10)
- a) Explain the following protocols
    - SOAP
    - HTTP
  - b) Explain the different applications of IoT with example.
  - c) Explain MAC protocol for IOT.