

Roll No.

Total No. of Pages : 01

Total No. of Questions : 8

M.Tech. (ECE) (Sem.-2)

INTERNET OF THINGS

Subject Code : MTEC-PE3B-18

M.Code : 76262

Date of Examination : 16-12-2022

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.

2.Each question carries TWELVE marks.

- Q1. a) Explain the building blocks of an IoT system with a neat diagram. (6)
b) Differentiate Ipv4 and Ipv6 Internet protocols. (6)
- Q2. a) Differentiate LAN, PAN and WAN. (6)
b) Differentiate the 6LoWPAN and CoAP protocols in detail. (6)
- Q3. a) Explain the concept of software defined Networking. (4)
b) Demonstrate in detail about the principle of Edge/P2P networking in IoT. (8)
- Q4. a) Discuss the security issue in a communication protocol of an IoT system. (4)
b) Explain the MQTT communication protocol with its security features in detail. (8)
- Q5. Discuss the salient features of IT act 2000 and scope of IoT legislation in detail. (12)
- Q6. Explain the cloud to Fog networking for a real life IoT application in detail with the help of suitable block diagram. (12)
- Q7. a) Explain the various advantages of smart health care system. (4)
b) Draw the block diagram and explain an IoT based health care system in detail. (8)
- Q8. a) Explain the significance of an open source hardware platform for an IoT system. (4)
b) Explain the various open source hardware platforms commercially available to develop an IoT system. (8)

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.