D17002082

Registration No: | | | | | | | | | | |

Total Number of Pages : 01 **M.TECH**

M.TECH 1ST SEMESTER REGULAR EXAMINATIONS, DECEMBER 2017
PRINCIPLES OF INTERNET OF THINGS
Branch: EC, Subject Code:MECPC1030
Time: 3 Hours
Max Marks : 70
The figures in the right hand margin indicate marks.

PART-A

(2X10=20 MARKS)

1. Answer the following questions .

a. What is the Internet of Everything?
b. Define Mesh topology with example?
c. What are the important Components of Internet of Things?
d. What are the top 5 Machine-to-Machine (M2M) applications in the world?
e. What impacts will the Internet of Things (IoT) have on Transportation Sector?
f. How the Internet of Things (IoT) makes a difference to the businesses?
g. What impacts will the Internet of Things (IoT) have on Infrastructure and Smart Cities Sector?
h. What is the controller service in weather monitoring system?
i. What is big-data and why we are using big-data in IOT?
j. Differentiate between 6LOWPAN and IEEE 802.15.4-LR WPAN?

PART-B

(5 X 10=50 MARKS)

Answer any five questions from the following.

2. a. Explain about various protocols used in IOT.
   b. Explain identifier, enabling technologies of IOT.
3. a. Define WSN .
   b. Explain about various concepts involved in WSN .
4. a. Explain about standardizing the IOT.
   b. Describe about exploiting the potential of IOT, promoting ubiquitous networking.
5. a. List various architectures of home network applications .
   b. Explain about Internet of things using PLC technology .
6. a.What are the challenges and issues in RFID system.
   b.Discuss various components of RFID system.
7. a.Explain in detail about data synchronization techniques in IOT.
   b. Explain in detail about clustering principle in IOT.
8. a.Explain in detail about application of IOT in city automation and home automation.
   b. Explain in detail about business model and business innovation in IOT.

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