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Total Number of Pages : 01 M.TECH

M.TECH 1ST SEMESTER REGULAR EXAMINATIONS, DECEMBER 2017 INTERNET OF THINGS

Branch: CS, Subject Code:MCSPC1010

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) Define IoT & its Characteristics?
- b) What are the difference between machines in M2M and Things in IoT?
- c) How do data collection and analysis approaches differ in M2M and IoT?
- d) What is web service? What are different types of web services used in IOT?
- e) Differentiate between physical entity and virtual entity in IoT system?
- f) What do you mean by data visualization? Explain it.
- g) Define Mesh topology with example?
- 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 6 LOWPAN and IEEE 802.15.4-LR WPAN?

PART-B

(5 X 10=50 MARKS)

Answer any five questions from the following.

- 2 .a) What are the different layers of IoT protocols? Explain functions of all the layers?
 - b) Define IoT, explain about things/objects in IoT with example.
- 3. a) What are the different communication models of IoT?
 - b) Explain publish-subscribe communication model &request-response communication model?
- 4 a) Describe NFV architecture & explain how it can be used for virtualizing IoT devices?
 - b) Explain about components of RFID System and issues.
- 5. a) Explain about various ongoing research projects in IoT.
 - b) Define and explain various concept involved in WSN
- 6 a) Explain industry 4.0 concept?
 - b) Describe about localization and handover management on RFID.
- 7 a) Describe the difference between IoT and M2M with example?
 - b) Design an architecture for home network application.
- 8 a) What is an IoT device? Explain the basic building blocks of IoT device with diagram?
 - b) Write python program for controlling an LED with a switch?