[5561]-656
B.E.(E&TC)
INTERNET OF THINGS
(2015 Pattern) (Semester - I) (Elective - I)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:
1) *Neat diagrams must be drawn wherever necessary.*
2) *Figures to the right side indicate full marks.*

Q1) a) What is IoT? Explain: Things in IoT. **[6]**

     b) What are various components of RFID? Explain any two. **[6]**

     c) Write a note on Topology models of IEEE 802.15.4 and PAN Coordinator. **[8]**

OR

Q2) a) Compare IoT and M2M services. **[6]**

     b) How sensors and actuators work? Explain with practical example. **[7]**

     c) Explain working of Zigbee protocol. **[7]**

Q3) a) What is REST protocol? Explain characteristics of REST based API. **[8]**

     b) Explain CoAP messaging format. **[8]**

OR

Q4) a) Explain IPv6 packet format in detail. **[8]**

     b) What is RPL? Explain DODAG and DIO with respect to RPL. **[8]**

Q5) a) What are various types of Big Data? Explain in detail. **[8]**

b) Explain types of Data Analytics in detail. **[8]**

OR

Q6) a) What are various characteristics of Hadoop? **[8]**

b) What is precision? Explain different types of errors. **[8]**

Q7) a) Explain Smart home and smart city applications in view of IoT. **[10]**

b) How IoT will be used to protect environmental loss? **[8]**

OR

Q8) a) Explain application of IoT in agriculture field. Explain it with a case study. **[10]**

b) Write a note on Industrial IoT. **[8]**

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