Total No. of Questions : 8]

SEAT No. :

P3961

[Total No. of Pages : 2

[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]**

P.T.O.

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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