Sem – V – choice based.

Time : 3 Hours **Marks: 80**

N.B. :
1) Question No.1 is **compulsory.**
2) Attempt any **three** from the remaining **five** questions.
3) Illustrate answers with neat sketches wherever required.
4) Answers to questions should be **grouped** and written **together**

Q.1 (a) Explain IoT value chain **10**

   (b) Explain IoT in terms of Smart Cities **10**

Q.2 (a) What are different IoT enabling technologies? Explain Wireless Sensor Network (WSN) in detail **10**

   (b) Explain one open source prototyping platform for IoT **10**

Q.3 (a) Explain Architecture Reference Model for IoT. **10**

   (b) Explain Service Oriented Architecture (SOA) for IoT **10**

Q.4 (a) Explain technical design constraints involved in Devices and Networks in terms of Functional Requirements, Sensing and communications field **10**

   (b) What is M2M? Explain key application areas of M2M. **10**

Q.5 (a) Explain IoT in terms of Retail **10**

   (b) Explain in detail functional model in IoT reference model **10**

Q.6 Write short notes on (any four) **20**
   (a) Difference between IoT and M2M
   (b) ETSI M2M/ one M2M state of art architecture
   (c) Cloud Computing
   (d) Motion Sensor
   (e) Constraints in IoT data representation and visualization

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