

## **Module 1**

1. Describe the functions of various layers of simplified IoT architecture model.
2. Discuss the evolutionary phase of internet.
3. Explain the challenges of IoT.
4. Illustrate the impact of IoT in at least 2 domains of everyday lives of human life.
5. Differentiate between OT and IT technology
6. Describe the standardized IoT architectures.
7. Depict the data management in traditional IT systems and list several data-related problems it needs to be addressed
8. With a neat diagram, explain the main elements of the oneM2M IoT Architecture.
9. Illustrate the benefits and impact of IoT in Connected Roadways and Smart Creatures.
10. Write a description on fog computing and edge computing.
11. Explain about the Simplified IoT Architecture with neat sketches.
12. Describe the applications and analytics sublayer of IoT architecture
13. Explain the functions of access network sublayer of IoT architecture

## **Module 2**

1. Comment on the trends in smart objects.
2. With a neat diagram, describe how sensors and actuators interact with the physical world.
3. What is the role of actuators in IoT systems?
4. List any three types of actuators classified by energy types with examples.
5. Describe Micro–Electro–Mechanical Systems (MEMS).
6. Describe any two communication criteria which are to be considered when selecting and dealing with connecting smart objects
7. Comment things in IoT
8. Describe various types of sensors
9. Explain the characteristics of smart objects.
10. Explain wireless sensor networks