**IOT- Mid Term – Question Paper**

**Duration: 75 minutes Total Marks : 30**

**Note: Answer any five questions**

1. **Name and explain the working of two IoT devices which you have noticed in your college?**
2. **Explain the building blocks of IoT. With a suitable diagram illustrate how you can convert a regular water heater into IoT enabled water heater?**
3. **Explain how healthcare can be transformed using IoT?**
4. **Explain IOT architecture with a suitable diagram. What are the advantages of using Fog/Edge Computing.**
5. **Which factors do you consider while buying any sensor. Name and explain at least two sensors that are available in your mobile phone.**
6. **Explain MQTT protocol with suitable diagram. Specify the suitable topic and payload in case you have been asked to send information about lights and fans in your class room to a mqtt subscriber.**
7. **Explain the necessity of using Zigbee in IoT. With suitable diagram describe Mesh topology.**
8. **Compare and contrast between Bluetooth Low Energy (BLE) and Bluetooth.**