

Answer the following questions and do upload

Unit-1

1. Define IoT and what are the things in IoT
2. Discuss the characteristics and challenges of IoT
3. Explain the IoT stack with all the levels
4. Discuss the 5 levels in IoT
5. What is the role of cloud in IoT

Assignment-2

- 1. Write the procedure to control a sensor through a webpage with an example**
- 2. List out few differences between a microprocessor and a microcontroller**
- 3. Draw the architecture of 8051 and explain all its features.**
- 4. What is the program counter and how it will work.**
- 5. What is the difference between URN and URL ?**
- 6. Explain Timers and counters in 8051**

Assignment-3

- 1. Explain the transport protocol and explain each with an example**
- 2. What is the principle and advantages of Li-Fi**
- 3. What is Internet Protocol? Explain different classes in IPv4.**
- 4. Explain about layout of IPv6**
- 5. Explain the importance of MQTT protocol with respect to IOT infrastructure.**
- 6. what is uniform resource identifier**

Assignment-4

- 1) Mention Differences between Private Cloud and Public Cloud and What are advantages and disadvantages of Public cloud deployment**
- 2) Explain the challenges of IOT with cloud.**
- 3) Elaborate on Fog computing and mention the advantages of fog computing.**
- 4) Discuss about service models of cloud computing.**
- 5) Elaborate on parameters to be considered for selecting cloud service providers.**
- 6) List out deployment models of cloud computing.**

Assignment-5

- 1. What is the data analysis? mention steps involved in Data Analysis Process and Name some data analysis tools.**
- 2. Define Machine learning and explain Different Algorithm Methods for Machine Learning? Mention some applications also.**
- 3. Describe the following algorithms of machine learning
(a) Decision tree (b) Logistic regression (c) K-Means Clustering**
- 4. Explain in detail about smart retail and Smart Healthcare-Elderly Fall Detection with IoT and Sensors.**