

DEPT. OF ELECTRONICS & TELECOMMUNICATION ENGINEERING
GOVERNMENT POLYTECHNIC, BALASORE
QUESTION BANK
ON
TH4- INTERNET OF THINGS
SEMESTER & BRANCH : – 6TH SEM, E & TC ENGINEERING

SHORT QUESTIONS

1. What is IOT ?
2. What are the application of iot.
3. Specify any four application of IOT.
4. Define data Acquisition.
5. Different between IPv4 & IPv6
6. What are the components of IOT device.
7. List any four types of sensors and actuators used in IOT
8. What are the application of Cloud computing.
9. Write down the different between Traditional TV & Smart TV.
10. Write down the name of operating system used in smart TV.
11. What is the security aspect of IOT.
12. What is role of IOT in cloud
13. Define IP ADDRESS
14. What is M2M
15. Define framework
16. Define cellular network
17. What do you mean by mess network
18. Define input address and its type.
19. What is Bluetooth
20. What is Zigbee
21. What are the application of Aurdino uno
22. What are the application of Raspberry pi
23. What is industry 4.0
24. What is MQTT
25. What is Big data
26. What are the characteristics of IOT
27. What is smart TV
28. What is smart car
29. Write down the basic concept of smart city
30. What is the significance of application layer in IOT system?
31. What is Sensor
32. What is actuator
33. What is IEEE 802.15.4 protocol, how it is related to IoT?
34. Why do IoT systems have to be self-adapting and self-configuring capabilities?
35. Mention different functional blocks of IoT in block diagram.
36. Give main components of M2M system.
37. What are the different wireless technologies used in IoT systems?

LONG QUESTIONS

1. Explain about architecture of IoT With neat diagram
2. List and explain different basic types of sensors used in IoT systems.
3. Draw and explain the design of IoT based Home Automation System.
4. Explain in details about the data synchronization techniques in IoT.
5. Differentiate between M2M and IOT technology
6. Explain about role of cloud in iot
7. What are the different layers of IoT protocols? Explain the functions of each layer
8. Differentiate Between audrino and raspberry pi
9. What are the different communication models of IoT? Explain publish-subscribe communication model & request-response communication model?
10. Explain IOT cloud based data collection, storage and computing serives.
11. Explain industry 4.0 concept?
12. Differentiate between 6LOWPAN and IEEE 802.15.4-LR WPAN?
13. Explain data management and consolidation gateway.
14. Explain about smart cities and their application
15. Explain about smart TV and What are the operating system used in Smart TV
16. What is the MQTT and explain briefly
17. Explain about structure and unstructured at a storage.
18. Define communicate and explain different types of communication model in IOT.
19. Explain with examples, how Wireless Sensor Network are used in IOT Systems.
20. Explain applications of IoT in agriculture.
21. Explain about Structure and Unstructured data storage in cloud of IOT devices
22. Define protocol and explain any 4 types of protocols used in different layers of IOT design.
23. What are the main components used in the smart TV and Explain briefly about each component.
24. Write down short note on (a) Aurdino uno (b) Raspberry pi
25. Draw the building block of IOT and briefly describe about each block
26. List the IOT devices used for implementation of Smart Home and explain it.
27. Explain about the application of IOT in Industrial automation.
28. Explain about integration of smart TV in to IOT.
29. Explain in detail IOT Framework with neat diagram.
30. Explain about data management system used in IOT and sketch with suitable block diagram