



SNS COLLEGE OF ENGINEERING
(Autonomous)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



19EC621 – IoT and Wireless Sensor Networks

PART – A & B

1. What is Internet of Things (IoT). What are components required to design IoT Device and which device we called IoT device explain with example.
2. Explain Internet of Things (IoT) with example.
3. Give brief overview of IoT.
4. What is vision of IoT?
5. Explain four Pillars of IoT and how they are inter-connected with each other?
6. What are different challenges of IoT?
7. What are different components required for IoT device?
8. What is Machine to Machine communication (M2M)?
9. Explain different Characteristics of IoT.
10. What effect will the internet of things (IoT) have on our daily lives? Explain with any one example of smart device.
Explain Challenges and requirements of IoT device.
12. Explain vision of IoT?
13. Explain an emerging industrial structure for IoT.
14. What are different business and research opportunities for IoT?
15. Explain layered architecture of IoT.
16. Explain building block of IoT.

17. Explain different networking and communication model in IoT.
18. What are different wired and wireless connectivity we can use in IoT explain with example.
19. Explain wireless sensor network?
20. What is relation between WSN and IoT. Explain with example.
21. Write note on : RFID, NFC, ZigBee.
22. What effect will the internet of things (IoT) have in healthcare? Explain with any one example of smart device.
23. What is ZigBee?
24. Explain IoT protocol stack.
25. Explain in details IoT Architecture layers.
26. Explain Near Field Communication (NFC) and RFID.
27. Explain TCP/IP vs IoT protocol stack.
28. What is requirement of IoT Protocol Standardization?
29. Explain with example MQTT Protocol. What is role of MQTT protocol in IoT?
30. Write a note on : CoAP, REST, XMPP.
31. What are different IoT protocols?
32. What is role of Cloud Computing and Big Data in Internet of Things?
33. What is IoT Analytics?
34. Explain Data visualization and its importance in IoT.
35. Explain what are the components and Communication media required for making smart building.
36. Difference between Web of Things versus Internet of Things.

37. Explain WoT with example.
38. Explain Two Pillars of the Web.
39. What are different Platform Middleware for WoT?
40. What is WoT Portals and Business Intelligence?
41. Explain Cloud of Things.
42. Why we need of IoT Security.
43. Explain issues in IoT security.
44. Write a note on: 1) Trust for IoT 2) Security and Privacy for IoT 3) Physical IoT Security.
45. Explain on Devices Security and Privacy of IoT cloud.
46. What is Role of the Internet of Things for Increased Autonomy and Agility in Collaborative Production Environments?
47. Explain IoT Application and Deployment Scenarios in different domains.
48. Explain IoT Smart X Applications?
49. Write note on: Wearable - Smart Cities- Smart Home – Smart HealthCare- Agriculture - Smart Grid.
50. Explain with example: Wearable - Smart Cities- Smart Home – Smart HealthCare- Agriculture - Smart Grid