

Internet of Things

1. Describe an example of an IoT system in which information and knowledge are inferred from data.
2. What is the function of communication functional block in an IoT system?
3. Describe an example of IoT service that uses publish-subscribe communication model.
4. Describe an example of IoT service that uses WebSocket-based communication.
5. What are the architectural constraints of REST?
6. Determine the IoT-levels for designing home automation IoT systems including smart lighting and intrusion detection.
7. Determine the IoT-levels for designing structural health monitoring system.
8. What are the differences between Machines in M2M and Things in IoT?
9. Describe how SDN can be used for various levels of IoT.?
10. Describe how NFV can be used for virtualizing IoT devices.?
11. What is the role of a NETCONF server?
12. Describe the roles of YANG and TransAPI modules in device management.

13. What is the purpose of information model?
14. What are the various service types?
15. Describe the Python Data Types & data structures.
16. With example, explain the control flow statements in Python.
17. How is function overriding implemented in Python?