

Introduction to Internet of Things

Assignment 1

1. Internet of Things (IoT) can be integrated with which of these separate domains:
 - a. Cloud-based storage and computing.
 - b. Cyber Physical Systems.
 - c. Big-data networks.
 - d. **All of these.**
2. In the current market scenario, IoT captures the maximum share in which one of these?
 - a. **Industry**
 - b. Security
 - c. Healthcare
 - d. Home automation
3. Why is IPv6 preferred over IPv4 for IoT implementations?
 - a. Larger addressing range
 - b. More security
 - c. **Both of the above**
 - d. Neither a or b
4. The main function of the IoT Gateway can be summarized as:
 - a. **Forwarding packets between LAN and WAN on the IP layer.**
 - b. Performs application layer functions between IoT nodes and other entities.
 - c. Enables local, short-range communication between IoT devices.
 - d. All of these
5. Gyroscope is a sensor which measures:
 - a. Acceleration
 - b. Velocity
 - c. **Physical orientation**
 - d. Pressure
6. The approximation of the measured property sensed by a digital sensor induces:
 - a. **Quantization error**
 - b. Hysteresis error
 - c. Aliasing error
 - d. All of these
7. Pneumatic actuators depend on _____ for their operation.
 - a. Fluids
 - b. Powder
 - c. **Air**
 - d. None of these

8. A DC motor is a type of :
- a. Pneumatic actuators
 - b. Hydraulic actuators
 - c. Electrical actuators**
 - d. Mechanical actuator
9. Which of these is NOT a part of the Service Layer of the IoT Service Oriented Architecture?
- a. Service integration
 - b. Service repository
 - c. Business logic
 - d. Data sensing and actuation protocols.**
10. Which of these is NOT related to IoT scalability?
- a. Flexibility within Internet.
 - b. Large scale deployment.
 - c. Real-time connectivity of billions of devices.
 - d. Range of each sensor node.**