Introduction to Internet of Things
Assignment 2

1. Which of these statements is NOT TRUE?
   a. MQTT is a publish-subscribe protocol
   b. **MQTT is a client-server protocol**
   c. MQTT is a lightweight messaging protocol
   d. MQTT is used in conjunction with TCP/IP

2. MQTT is designed for:
   a. Remote connections
   b. Limited bandwidth
   c. Small-code footprint
   d. **All of these**

3. CoAP is a:
   a. Physical layer protocol
   b. **Application layer protocol**
   c. Service layer protocol
   d. Network layer protocol

4. REST stands for:
   a. **Representational State Transfer**
   b. Resourceful Sensor Transfer
   c. Resourceful State Transport
   d. None of these

5. AMQP is designed for connecting:
   a. Constrained networks
   b. LANs and WANs
   c. **Systems and Business processes**
   d. None of these

6. AMQP provides the following message delivery guarantees:
   a. At most once
   b. At least once
   c. Exactly once
   d. **All of these**

7. Which modulation scheme is followed by IEEE 802.15.4 standard?
   a. BPSK
   b. QPSK
   c. DSSS
   d. **All of these**

8. Collision prevention in 802.15.4 standard is provided by means of:
   a. **CSMA-CA**
b. CSMA-CD  
c. ALOHA  
d. None of these

9. Which of these is a routing protocol for low power lossy networks over IPv6?  
   a. RPL  
   b. OSPF  
   c. Both a and b  
   d. None of these

10. RPL supports:  
    a. Message confidentiality  
    b. Loop detection in the routes  
    c. Data path validation  
    d. All of these