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Courses » Design for internet of things

Announcements Course Ask a Question Progress Mentor

# Unit 7 - IoT Protocols

## Course outline

How to access the portal

Introduction to IOTs - Improving Quality of Life

System Design and Overview of Power Supply Section

Designing with LDO's, Switching Regulators and Case Studies

Power Conditioning with Energy Harvesters

Battery less power supply and battery life calculation for embedded devices

## IoT Protocols

- Introduction to MQTT
- Quality of Service in MQTT
- Standards and Security in MQTT
- Introduction and Implementation of AMQP
- Implementation of CoAP and MDNS

## Week6 Assessment

The due date for submitting this assignment has passed. **Due on 2017-09-06, 23:59 IST.**

### Submitted assignment

1) Which of the following is not a part of the MQTT? **1 point**

- Publisher
- Exchange
- Broker
- Subscriber

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Exchange*

2) In the REST architecture, the disadvantage of using Uniform Interface is **1 point**

- Degrades efficiency
- Degrades latency
- Degrades visibility interactions
- None of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Degrades efficiency*

3) \_\_\_\_\_ in MQTT handles receiving published messages and sending them on to any clients who have subscribed **1 point**

- Consumer
- Broker
- QoS (Quality of Service)
- All of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Broker*

4) A \_\_\_\_\_ is a UTF-8 string, which is used by the broker to filter messages for each connected client **1 point**

- Client id
- Topic

Quiz : Week6 Assessment

Solutions for Week 6 Assessment

**IoT LAN and WAN Connectivities**

**IoT Case Studies**

- Packet identifier
- Payload

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Topic*

5) Which of these is a open-source client implementations of MQTT? **1 point**

- Ruby
- MySQL
- Paho
- None of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Paho*

6) Which of these determines the guarantee of a message reaching the other end (client or broker)? **1 point**

- Client id
- Topic
- Queuing
- Quality of service(QoS)

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Quality of service(QoS)*

7) Which of the following is true? **1 point**

- A producer can send a message only to a queue
- A producer can send a message only to an exchange
- A producer sends messages to the queue and the exchange simultaneously
- None of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*A producer can send a message only to an exchange*

8) What is the function of an exchange? **1 point**

- Generates messages which are to be sent to consumers
- Buffers the messages when the consumer is offline
- Routes messages to the specified queue
- None of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Routes messages to the specified queue*

9) What differentiates the 'default exchange' and the 'round robin exchange'? **1 point**

- Delivery\_mode(=2)
- Queue name
- Specify the type as round robin
- All of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Delivery\_mode(=2)*

10) Which of the following is a feature of IOT?

**1 point**

- Dynamic and self adaptivity
- Self configuring
- Interoperable communication
- All of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of the above*

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