

Unit 3 - Week 1

Course outline

How does an NPTEL online course work?

Week 0

Week 1

- Lecture 1 : Introduction: Sensing & Actuation
- Lecture 2 : Introduction: IoT Connectivity – Part I
- Lecture 3 : Introduction: IoT Connectivity – Part 2
- Lecture 4 : Introduction: IoT Networking – Part 1
- Lecture 5 : Introduction: IoT Networking – Part 2
- Week 1 : Lecture Material
- Quiz : Assignment 1
- Week 1 Feedback Form

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Download Videos

Text Transcripts

Detailed Assignment Solution

Live Interactive Session

Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-02-12, 23:59 IST.

1) 1 point

Which of the following protocol supports reading and writing of time-series data using XML serialization?

- CoAP
- MQTT
- XMPP
- IEEE 1888

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

2) 1 point

Which of the following enables IoT networks to bring together massive number of objects?

- Dynamic Nature
- Connectivity
- Intelligence
- Enormous Scale

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

3) 1 point

Which of the following Interface is related to CoRE?

- Resource Interface
- Lookup Interface
- Both a. and b.
- None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

4) 1 point

A client with limited buffer size and sensitive to packet loss prefers

- QoS-0
- QoS-1
- QoS-2
- Both b) and c)

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

5) 1 point

Which of the following statement(s) is/are true for CoAP protocol?

- Uses GET message requests to retrieve subscription.
- Uses PUSH message requests to create subscription.
- Uses PUT message requests to create subscription.

- Only I
- Only II
- I and II
- I and III

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

6) 1 point

Which of the following network topologies are supported by the IEEE 802.15.4 standard?

- Star and Mesh
- Star and Peer-to-Peer
- Mesh and Peer-to-Peer
- None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

7) 1 point

What is the operating frequency range for 6LoWPAN?

- 902–929 MHz
- 2400–2483.5 MHz
- Both (a) and (b)
- None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

8) 1 point

Which access method is implemented in WirelessHART?

- FDMA
- TDMA
- CDMA
- None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

9) 1 point

What are the network topologies supported by a wireless HART network?

- Star
- Mesh
- Both (a) and (b)
- None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

10) 1 point

What is the network topology of Z-wave network?

- Ring
- Bus
- Mesh
- None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

11) 1 point

What is the primary application area of ISA 100.11a?

- Home automation and monitoring
- Office Automation and monitoring
- Large scale industrial automation and monitoring
- All the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

12) 1 point

What is the maximum number of devices supported by a Bluetooth device?

- 232
- 7
- Both (a) and (b)
- None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

13) 1 point

Which of the following do not contribute in routing in a Zigbee network?

- Coordinator
- End Device
- Controller
- Router

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

14) 1 point

Which of the following resource utilization QoS policy limits amount of message buffering?

- Resource Limits Policy
- Deadline Policy
- Time Filter Policy
- Both a) and b)

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

15) 1 point

Among the following, which is an actuator?

- Microphone
- Speaker
- Both (a) and (b)
- None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.