



Unit 4 - Week 2

Register for Certification
exam

Course outline

How to access the
portal

Week 0

Week 1

Week 2

● Lecture 6: Basics of
IoT Networking-Part II

● Lecture 7: Basics of
IoT Networking-Part-
III

● Lecture 8: Basics of
IoT Networking- Part-
IV

● Lecture 9:
Connectivity
Technologies- Part-I

● Lecture 10:
Connectivity
Technologies- Part-II

● Week 2: Lecture
Material

● Feedback for Week 2

● Quiz : Assignment 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

DOWNLOAD VIDEOS

Assignment Solution

Text Translation

Assignment 2

The due date for submitting this assignment has passed.

Due on 2019-02-13, 23:59 IST

Assignment submitted on 2019-02-09, 11:51 IST

1) The MQTT publish-subscribe protocol is:

1 point

- a. Event driven
- b. Broker driven
- c. Client driven
- d. All of these

- ☒ a
☐ b
☐ c
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

2) REST stands for:

1 point

- a. Representational State Transfer
- b. Resourceful Sensor Transfer
- c. Resourceful State Transport
- d. None of these

- ☒ a
☐ b
☐ c
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

3) Brokers in MQTT

1 point

- a. Connects publishers and subscribers
- b. Classify the sensor data into topics
- c. Both of the above
- d. None of the above

- ☐ a
☐ b
☒ c
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

4)

1 point

In AMQP, link initiation in order to send and receive messages is done by which frame type?

- a. OPEN
- b. ATTACH
- c. BEGIN
- d. FLOW

- ☐ a
- ☒ b
- ☐ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

5)

MQTT topics are

- a. Simple floating point
- b. Simple integer
- c. Simple symbol
- d. Simple string

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

6)

CoAP stands for

- a. Contention Application Protocol
- b. Constrained Application Protocol
- c. Cluster Application Protocol
- d. Continuous Application Protocol

- ☐ a
- ☒ b
- ☐ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

7)

Which statement is TRUE with respect to the IEEE 802.15.4 standard?

- a. It is a low data-rate standard.
- b. Used for architecting wireless PANs
- c. Uses only two layers – PHY and MAC
- d. All of these

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.

Score: 1



1 point

1 point

1 point

Accepted Answers:

d

- 8) In the network layer, Zigbee follows which routing scheme?
- a. AODV
 - b. DSDV
 - c. RIPv2
 - d. OSPF

1 point

- ☒ a
☐ b
☐ c
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

- 9) XMPP protocol is

1 point

- a. Service-oriented middleware based on Hyper Text Markup Language (HTML)
- b. Message-oriented middleware based on Extensible Markup Language (XML)
- c. Message-oriented middleware based on Hyper Text Markup Language (HTML)
- d. Service-oriented middleware based on Extensible Markup Language (XML)

- ☐ a
☒ b
☐ c
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

- 10) In AMQP protocol, *Attach* frame type is used to:

1 point

- a. Open connection
- b. Informs the changes in state of transfer
- c. Initiate new link
- d. Terminate the link

- ☐ a
☐ b
☒ c
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

- 11) Which of the following is/are the feature(s) of AMQP?

1 point

- a. Targeted QoS
- b. Persistence
- c. High speed protocol
- d. All of these

- ☐ a
☐ b
☐ c
☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

12) IEEE 802.15.4 uses which of the following for accessing the channel?

1 point

- a. Carrier sense multiple access (CSMA)
- b. Carrier sense multiple access with collision detection (CSMA-CD)
- c. Carrier sense multiple access with collision avoidance (CSMA-CA)
- d. None of these

- ☐ a
- ☐ b
- ☒ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

13)

1 point

Which of the following is not true for Reduced Function Device (RFD) in IEEE 802.15.4?

- a. Can only talk to a Full Function Device (FFD)
- b. Can talk to all types of devices
- c. Lower power consumption
- d. Minimal CPU/RAM required

- ☐ a
- ☒ b
- ☐ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

14)

1 point

Which of the following is true for ZigBee Router (ZR)?

- a. It contains just enough functionality to talk to the parent node, and it cannot relay data from other devices.
- b. This allows the node to be asleep a significant amount of the time thereby enhancing battery life.
- c. Capable of running applications, as well as relaying information between nodes connected to it.
- d. Memory requirements and cost of ZEDs are quite low, as compared to ZR or ZC.

- ☐ a
- ☐ b
- ☒ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

15) RPL Routing

1 point

- a. Maintains routing topology using high rate beaconing
- b. Maintains routing topology using low rate beaconing
- c. Maintains routing topology without beaconing.
- d. None of these

- ☐ a
- ☒ b

- ☐ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

[Previous Page](#)

[End](#)



© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -

A project of



NPTEL

National Programme on
Technology Enhanced Learning

In association with

NASSCOM®

Funded by

Government of India
Ministry of Human Resource Development

Powered by

Google™