

Course outline

About NPTEL

How does an NPTEL online course work?

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
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Week 02: Assignment 02

The due date for submitting this assignment has passed.

Due on 2025-08-06, 23:59 IST.

Assignment submitted on 2025-08-01, 18:25 IST

1) The full form of MQTT is 1 point

- a. Message Queue Telephone Transmission

b. Message Query Telemetry Transport

c. Message Queue Telemedicine Transport

d. None of these

- ☐ (a)

☐ (b)

☒ (c)

☐ (d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d)

2) Which of the following is NOT a method in MQTT? 1 point

- a. Break

b. Stick

c. Run

d. All of these

- ☒ (a)

☐ (b)

☐ (c)

☐ (d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d)

3) Which of the following is/are component/components of MQTT? 1 point

- a. Publishers

b. Subscribers

c. Brokers

d. All of these

- ☐ (a)

☐ (b)

☐ (c)

☒ (d)

Yes, the answer is correct.
Score: 1
Accepted Answers:
(d)

4) State whether the following statement is true or false. 1 point

SMQTT is an extension of MQTT which uses lightweight attribute based encryption. It has three main stages.

- a. True

b. False

- ☐ (a)

☒ (b)

Yes, the answer is correct.
Score: 1
Accepted Answers:
(b)

5) The OSI model has _____ layers. 1 point

- a. 6

b. 8

c. Both (a) and (b)

d. None of these

- ☐ (a)

☒ (b)

☐ (c)

☐ (d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d)

6) The two sub-layers of CoAP are - 1 point

- a. Messaging and Holding

b. Messaging and Backoff

c. Messaging and Teardown

d. None of these

- ☐ (a)

☐ (b)

☒ (c)

☐ (d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d)

7) What is the full form of AMQP in the context of IoT protocol? 1 point

- a. Another Message Queuing Protocol

b. Anchored Message Queuing Protocol

c. Adjoint Message Queuing Protocol

d. None of these

- ☒ (a)

☐ (b)

☐ (c)

☐ (d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d)

8) XMPP uses the _____ architecture. 1 point

- a. Publish-subscribe

b. Client-server

c. Both (a) and (b)

d. Neither (a) nor (b)

- ☐ (a)

☒ (b)

☐ (c)

☐ (d)

Yes, the answer is correct.
Score: 1
Accepted Answers:
(b)

9) How many message delivery guarantee modes are there in the AMQP protocol? 1 point

- a. 2

b. 3

c. 4

d. None of these

- ☐ (a)

☒ (b)

☐ (c)

☐ (d)

Yes, the answer is correct.
Score: 1
Accepted Answers:
(b)

10) Which of the following is/are NOT an AMQP frame type? 1 point

- a. Open

b. Close

c. Random

d. None of these

- ☐ (a)

☐ (b)

☒ (c)

☐ (d)

Yes, the answer is correct.
Score: 1
Accepted Answers:
(c)

11) State whether the following statement is true or false. 1 point

Statement: IEEE 802.15.5 was developed for low data rate monitoring and control applications and extended life low power communication uses.

- a. True

b. False

- ☒ (a)

☐ (b)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(b)

12) Which of the following is/are exchange types in AMQP? 1 point

- a. Direct

b. Indirect

c. Both (a) and (b)

d. None of these

- ☒ (a)

☐ (b)

☐ (c)

☐ (d)

Yes, the answer is correct.
Score: 1
Accepted Answers:
(a)

13) State whether the following statement is True or False. 1 point

Statement: The IEEE 802.15.4 operates in ISM band.

- a. True

b. False

- ☒ (a)

☐ (b)

Yes, the answer is correct.
Score: 1
Accepted Answers:
(a)

14) The networking topologies supported in the IEEE 802.15.4 are - 1 point

- a. Only Star

b. Star and Mesh

c. Only Mesh

d. None of these

- ☐ (a)

☒ (b)

☐ (c)

☐ (d)

Yes, the answer is correct.
Score: 1
Accepted Answers:
(b)

15) State whether the following statement is True or False. 1 point

Statement: Generation of Route Requests (RREQs) by a LOADng Router for discovering a route to a destination is a valid operation of the LOADng routing protocol.

- a. False

b. True

- ☒ (a)

☐ (b)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(b)