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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Introduction to Internet of Things (course)

Course outline

[About NPTEL \(\)](#)[How does an NPTEL online course work? \(\)](#)[Week 0 \(\)](#)[Week 1 \(\)](#)[Week 2 \(\)](#)[Week 3 \(\)](#)[Week 4 \(\)](#)[Week 5 \(\)](#)[Week 6 \(\)](#)[Week 7 \(\)](#)[Week 8 \(\)](#)[Week 9 \(\)](#)

Week 9 : Assignment 9

The due date for submitting this assignment has passed.

Due on 2024-09-25, 23:59 IST.

Assignment submitted on 2024-09-25, 15:02 IST

1) Which of the following can be used to install OpenStack? *1 point*

- a. devstack
- b. stack
- c. Swift
- d. All of these

- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

2) *1 point*

● Lecture 41 :
Cloud
Computing-
Practical (unit?
unit=92&lesso
n=93)

● Lecture 42 :
Sensor-Cloud-
I (unit?
unit=92&lesso
n=94)

● Lecture 43 :
Sensor-Cloud-
II (unit?
unit=92&lesso
n=95)

● Lecture 44 :
Fog
Computing- I
(unit?
unit=92&lesso
n=96)

Lecture 45 :

● Fog
Computing- II
(unit?
unit=92&lesso
n=97)
Lecture
material of

● Week 9 (unit?
unit=92&lesso
n=98)

Quiz: Week 9
: Assignment
9

● (assessment?
name=295)

● Week 9
Feedback
Form (unit?
unit=92&lesso
n=248)

● Assignment 9
Solution (unit?
unit=92&lesso
n=256)

Week 10 ()

Which of the following is/are the advantages of cloud computing?

- a. Elasticity
- b. Pay-per-use
- c. Self Service
- d. All of the above

☐ a.

☐ b.

☐ c.

☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

3)

1 point

Select the statement(s) that denote the limitations of WSNs.

Statement I: Procurement

Statement II: Deployment

Statement III: Maintenance

- a. Statement I
- b. Statement II
- c. Statements I, II, and III
- d. None of these

☐ a.

☐ b.

☒ c.

☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

[Week 11 \(\)](#)[Week 12 \(\)](#)[Download Videos \(\)](#)[Books \(\)](#)[Text Transcripts \(\)](#)[Live Interactive Session \(\)](#)

4)

1 point

Which of the following plays a role in the sensor-cloud architecture?

- a. End-users
- b. Sensor-owner
- c. Sensor-Cloud Service Provider
- d. All of these

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

5)

1 point

The managerial role is played by _____ in sensor-cloud architecture.

- a. End-users
- b. Sensor-Cloud Service Provider
- c. Neither a nor b
- d. Both a and b

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

6)

1 point

Which of the following is/are the components of the work-flow of the sensor-cloud.

- a. Virtual Sensor Manager
- b. Virtual Sensor Controller
- c. Resource Manager
- d. All of these

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

7)

Who coined the term Fog computing?

1 point

- a. IBM
- b. CISCO
- c. Both a and b
- d. Neither a nor b

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

8)

1 point

What of the following is responsible for allocation and deallocation of the resources?

- a. Sensor manager
- b. Sensor controller
- c. Sensor resource pool
- d. None of these

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

9)

1 point

The sensor owner can only deploy homogeneous physical sensor nodes in the sensor cloud.

- a. True
- b. False

- ☐ a.
- ☒ b.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

1 point

What is the function of Internal Cache?

- a. Handles requests from end-user
- b. Takes decision whether the data should be provided directly to the end user
- c. Neither a nor b
- d. Both a and b

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

11)

1 point

What is the other term for fog computing?

a. Foglog

b. Cloud

c. Dew

d. Fogging

☐ a.

☐ b.

☐ c.

☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

12)

1 point

Fill in the blanks. Fog computing is an intermediate layer between _____ and _____.

a. Dew and devices

b. Cloud and devices

c. Cloud and server

d. None of these

☐ a.

☒ b.

☐ c.

☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

13) Bandwidth refers to the bit-rate of data during analysis.

1 point

a. True

b. False

☐ a.

☒ b.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

14)

1 point

Which of the following is used by the fog applications to increase the speed of service accessibility?

a. Low power

b. Good network connection

c. Accelerators

d. Analytics

☐ a.

☐ b.

☒ c.

☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

15)

1 point

Fill in the blank. The concept of _____ enables physical hardware to be shared among multiple entities.

a. Hardware virtualization

b. Software virtualization

c. Module virtualization

d. All of these

☒ a.

☐ b.

☐ c.☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.