

Course outline

About NPTEL

How does an NPTEL online course work?

Week 0

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Week 9

Lecture 41 : Cloud Computing- Practical

Lecture 42 : Sensor-Cloud- I

Lecture 43 : Sensor-Cloud- II

Lecture 44 : Fog Computing- I

Lecture 45 : Fog Computing- II

Lecture material of Week 9

Quiz: Week 09: Assignment 09

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Week 09: Assignment 09

The due date for submitting this assignment has passed.

Due on 2025-09-24, 23:59 IST.

Assignment submitted on 2025-09-20, 10:42 IST

1) Fog is the layer between which two layers? 1 point

- a. Application and Presentation
- b. Network and Transport
- c. Cloud and IoT
- d. Transport and Session

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

2) Which of the following is/are the actors in sensor-cloud? 1 point

- a. Users
- b. Sensor-owner
- c. SCSP
- d. All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

3) Which of the following are considered key limitations of Wireless Sensor Networks (WSNs)? 1 point

- a. Cost of sensor nodes
- b. Physical deployment of sensors
- c. Both a and b
- d. Neither a nor b

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

4) Which of the following takes the decision whether the data should be provided directly to the end user or is it required to re-cache the data from external cache? 1 point

- a. User cache
- b. Sensor cache
- c. External cache
- d. Internal Cache

Yes, the answer is incorrect.

Score: 0

Accepted Answers:

d.

5) Fill in the blanks 1 point

The _____ extends the cloud nearer the IoT devices.

- a. Sensors
- b. Fogging
- c. Neither a nor b
- d. Both a and b

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

6) Which of the following is/are the types of data with respect to sensitivity? 1 point

- a. Time-sensitive
- b. Less time-sensitive
- c. Not time-sensitive
- d. All of these

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

8) What of the following is an advantage of fog computing ? 1 point

- a. Anywhere deployability
- b. Mobility
- c. Both a and b
- d. Neither a nor b

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

9) State True or False 1 point

Openstack is an open-source software.

- a. True
- b. False

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10) To what are the fog nodes connected to? 1 point

- a. IoT devices
- b. Cloud
- c. Neither a nor b
- d. Both a and b

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

11) Which of the following reduces danger and increases output? 1 point

- a. Static analysis
- b. Static decision making
- c. Both a and b
- d. Neither a nor b

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

12) Fill in the blanks. Fog computing is an intermediate layer between _____ and _____. 1 point

- a. Dew and devices
- b. Cloud and devices
- c. Cloud and server
- d. None of these

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

13) Unnecessary sensing causes energy consumption. 1 point

- a. True
- b. False

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

14) Which of the following is used by the fog applications to increase the speed of service accessibility? 1 point

- a. Low power
- b. Good network connection
- c. Accelerators
- d. Analytics

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

15) Fill in the blank. The concept of _____ enables physical hardware to be shared among multiple entities. 1 point

- a. Hardware virtualization
- b. Software virtualization
- c. Module virtualization
- d. All of these

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.