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[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](https://swayam.gov.in/explorer?ncCode=NPTEL) » Cloud Computing (course)


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Course outline

About NPTEL
()

How does an
NPTEL online
course work?
()

Week 0:
Assignment 0
()

Week 1 ()

Week 2 ()

Week 3 : Assignment 3

The due date for submitting this assignment has passed.

Due on 2025-02-12, 23:59 IST.

Assignment submitted on 2025-02-08, 23:26 IST

1)

1 point

Which of the following is/are NOT SLA requirement(s) of PaaS cloud delivery model?

- a. Privacy
- b. Data Retention and Deletion
- c. Machine-Readable SLAs
- d. Certification

☐ a

☒ b

☒ c

☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

c

2)

1 point

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 : ()

Week 11 : ()

Week 12 : ()

Text
Transcripts ()

Books ()

Problem
Solving
Session - Jan
2025 ()

Which of the following is/are true regarding penalty cost? (Here $D(t)$ and $R(t)$ are instantaneous demand and resources at time t .)

a. Penalty cost $\propto \int |D(t)/R(t)| dt$

b. If demand is flat, penalty is equal to 0.

c. If demand is exponential ($D(t)=e^t$), any fixed provisioning interval (tp) according to the current demands will fall linearly behind.

d. The penalty cost for exponential demand is exponential.

☐ a

☒ b

☒ c

☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

d

3)

1 point

Row-oriented storage is efficient for data-warehouse workloads.

a. TRUE

b. FALSE

☐ a

☒ b

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

4)

1 point

Which of the following is/are example(s) of cloud SLA(s) with IaaS delivery model?

a. Amazon EC2

b. Google App Engine

c. Salesforce CRM

d. Zoho mail

☒ a

☐ b

☐ c

☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

5)

1 point

Which of the following OpenStack components is used for block storage services?

a. Keystone

b. Cinder

c. Swift

d. Neutron

☐ a

☒ b

☐ c

☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

6)

1 point

In cloud, service downtime is 30 minutes and availability of the service is 0.80. What is the service uptime?

(a) 120 minutes

(b) 60 minutes

(c) 150 minutes

(d) 135 minutes

☐ a

☐ b

☒ c

☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

7)

1 point

In Google File System (GFS), the master maintains regular communication with the chunk servers.

a. TRUE

b. FALSE

☒ a

☐ b

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

8)

1 point

What is/ are the expected SLA parameters for Software-as-a-Service (SaaS):

- (a) Reliability
- (b) usability
- (c) Cache Memory size
- (d) Customizability

☒ a

☒ b

☐ c

☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

b

d

9)

1 point

Which of the following option(s) is/are correct?

- a. Service Level Agreement(SLA) contains Service Level Objectives(SLO)
- b. Service Level Objectives(SLO) contains Service Level Agreement(SLA)
- c. Multiple Service Level Agreements (SLAs) are aggregated to Key Performance Indicator (KPI)
- d. Key Performance Indicators (KPIs) are aggregated to Service Level Objectives(SLO)

☒ a

☐ b

☐ c

☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

d

10)

1 point

Statement 1: In OpenStack block storage, the stored objects persist until the VM is terminated.
Statement 2: In OpenStack ephemeral storage, the stored objects are accessible from within VM as local file system.

- a. Both statement 1 and 2 are correct
- b. Statement 1 is correct and statement 2 is incorrect
- c. Statement 2 is correct and statement 1 is incorrect
- d. Both statement 1 and 2 are incorrect

- ☐ a
- ☐ b
- ☒ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c