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rakesh.tu16@gmail.com ▾

NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Cloud computing (course)**

Announcements (announcements)

About the Course (https://swayam.gov.in/nd1_noc20_cs20/preview) Ask a Question (forum)

Progress (student/home) Mentor (student/mentor)

Unit 7 - Week 5

Course
outline

How does an
NPTEL online
course work?

Week 0
Assignment 0

Week 1

Week 2

Week 3

Week 4

Week 5

☐ Lecture 21: SLA-
Tutorial (unit?
unit=29&lesson=31)

☐ Lecture 22:
Cloudonomics-

Week 5 Assignment 5

The due date for submitting this assignment has passed. **Due on 2020-04-01, 23:59 IST.**

Assignment submitted on 2020-03-31, 14:49 IST

- 1) **Statement 1: If the demand is flat, the penalty will be exponential** *1 point*
Statement 2: If the demand is flat, the penalty will be linear

- (a) Statement 1 is True and Statement 2 is False
(b) Statement 1 is False and Statement 2 is True
(c) Both are True
(d) Both are False

- ☐ (a)
☐ (b)
☐ (c)
☒ (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(d)

Tutorial (unit?
unit=29&lesson=32)

☐ Lecture 23:
MapReduce-
Tutorial (unit?
unit=29&lesson=33)

☐ Lecture 24:
Resource
Mgmt-I (unit?
unit=29&lesson=34)

☐ Lecture 25:
Resource
Mgmt-II (unit?
unit=29&lesson=35)

☐ Lecture
material of
Week 5 (unit?
unit=29&lesson=30)

☒ Quiz : Week 5
Assignment 5
(assessment?
name=102)

☐ Week 5
Feedback Form
(unit?
unit=29&lesson=105)

Week 6

Week 7

Week 8

Text Transcripts

Books

Detail Solution

**Live Interactive
Session**

2) Service request time is a KPI for response time.

1 point

- (a) TRUE
(b) FALSE

☒ (a)

☐ (b)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(a)

3)

1 point

Statement 1: Utility Premium is defined as Peak Demand/Average Demand

Statement 2: Utility Premium is defined as Cloud unit cost/Baseline unit cost

- (a) Statement 1 is True and Statement 2 is False
(b) Statement 1 is False and Statement 2 is True
(c) Both are True
(d) Both are False

☐ (a)

☒ (b)

☐ (c)

☐ (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(b)

4)

1 point

Which of the following way(s) help(s) to save energy in computing?

- (a) Reduced boot times
(b) Increase time to perform live-migration
(c) Reduce image size
(d) None

☒ (a)

☐ (b)

☐ (c)

☐ (d)

Partially Correct.

Score: 0.5

Accepted Answers:

- (a)
(c)

5)

1 point

Which of the following is/are the objective(s) of Resource Management?

- (a) Increase latency
- (b) Improve quality of service(QoS)
- (c) Reduce throughput
- (d) Increase overhead

- ☐ (a)
☒ (b)
☐ (c)
☐ (d)

Yes, the answer is correct.
Score: 1

Accepted Answers:
(b)

6)

1 point

The relationship between the number of processing cores used and power consumption is

- (a) Linear
- (b) Non-linear
- (c) Can't be defined

- ☐ (a)
☒ (b)
☐ (c)

Yes, the answer is correct.
Score: 1

Accepted Answers:
(b)

7)

1 point

Which of the following function is responsible for consolidating the results produced by each of the Map() functions/tasks?

- (a) Map
- (b) Mapper
- (c) Reduce
- (d) None of the above

- ☐ (a)
☐ (b)
☒ (c)
☐ (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(c)

8)

1 point

Which of the following part of the MapReduce is responsible for processing one or more chunks of data and producing the output results?

- (a) Map Task
- (b) Shuffler
- (c) Task execution
- (d) None of the above

☒ (a)

☐ (b)

☐ (c)

☐ (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(a)

9)

1 point

Statement 1: Each mapper reads approximately $1/M$ of the input from the global file system

Statement 2: Files are sorted by a key and stored to the local file system

- (a) Statement 1 is True and Statement 2 is False
- (b) Statement 1 is False and Statement 2 is True
- (c) Both are True
- (d) Both are False

☐ (a)

☐ (b)

☒ (c)

☐ (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(c)

10)

1 point

Performance metrics for resource management are Ease of development and QoS.

- (a) TRUE
- (b) FALSE

☐ (a)

☒ (b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

