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NPTEL

reviewer3@nptel.iitm.ac.in ▾

Courses » Blockchain Architecture Design and Use Cases

Announcements **Course** Ask a Question Progress Mentor FAQ

Unit 1 - How to access the portal

Course outline

How to access the portal

- How to access the home page?
- How to access the course page?
- How to access the MCQ, MSQ and Programming assignments?
- Quiz : Assignment 0

FAQ

Week 1 : Unit 1

Week 2 : Unit 2

Week 3 : Unit 3

Week 4 : Unit 4

Week 5

Week 6

Week 7

Week 8

Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2018-07-31, 23:59 IST.

1) A typical processes on a remote systems can be identified by its: ***1 point***

- a) with only host ID
- b) both with host name and identifier
- c) only with identifier
- d) only using the process ID

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) both with host name and identifier

2) A characteristic of a processor in a distributed system is its: ***1 point***

- a) maintaining a local memory
- b) clock
- c) both local memory and clock
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) both local memory and clock

3) 3. Which of the following is not true about a distributed system? ***1 point***

- a) No shared memory
- b) Synchronized processors

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4) To detect the failures in link and/or a site which of the following mechanism is used by a distributed system **1 point**

- a) Polling
- b) Token Passing
- c) Handshaking
- d) Generation of Interrupts

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) Handshaking

5) What in a distributed file system cannot be obtained from the file name of a file? **1 point**

- a) the local name of the file
- b) physical storage location of the file
- c) both local name and physical storage location of the file
- d) none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) physical storage location of the file

6) Which of the following are the characteristics of a fully distributed system? i) When a process has executed its critical section, the process then sends reply to all the requests it has postponed ii) A process can enter the critical section when it has obtained response from all other processes iii) All requests are handled by a coordinator processor iv) With every critical section entry a separate request, reply and release **1 point**

- a) ii and iii
- b) i and ii
- c) ii and iv
- d) iii and iv

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) i and ii

7) Which of the following is the main principle behind the property of atomicity? **1 point**

- a) Either complete execution or no execution related to a process
- b) Usage of communication links
- c) A process can enter the critical section when it has obtained response from all other processes
- d) All requests are handled by a coordinator processor

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Either complete execution or no execution related to a process

8) Which of the following is/are maintained (or coordinated) by the transaction coordinator? **1 point**

a) Dividing a transaction into multiple subtransactions

b) Termination of a transaction

c) Initialising a transaction

d) All of the above choices

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) All of the above choices

9) Which of the following encryption schemes can be used to sign a message? ***1 point***

a) Private Key

b) Public Key

c) None of the Private and Public Key

d) Both Private as well as Public Key

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) Public Key

10) Say we consider a symmetric cryptography based system is used by a group of K people for communicating with each other. Following are some of the conditions imposed on the system: a) everyone communicates secretly with everyone else (i.e. 1 to all other K-1) b) the communication should not be decodable to anyone else other than the intended recipients. What is the number of keys required to fulfill the given conditions? ***1 point***

a) K(K-1)

b) K(K-1)/2

c) 2K

d) (K-1)2

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) K(K-1)/2

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