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About the Course
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Week 12: Assignment 12
The due date for submitting this assignment has passed.
                                                                                                       Due on 2021-10-20, 23:59 IST.
As per our records you have not submitted this assignment.
                                                                                                                                    1 point
      Which one of the following properties requires all changes made by a committed transaction to
      become permanent in the data base, surviving any subsequent failures?
                 a. Atomicity

    b. Consistency

                 c. Isolations
                 d. Durability
                 e. All of the above.
    a.
   ○ b.
    O c.
   O d.
    O e.
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  d.
                                                                                                                                    1 point
      Which of the following protocols are used to ensure isolation of transactions?
                 a. Clock synchronization protocols
                 b. Roll back protocols
                 c. Locking protocols
                 d. Resource sharing protocols
                 e. Real-time communication protocols
                 f. Routing protocols
    __ a.
    □ b.
   ☐ d.
   _ e.
   ___ f.
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  c.
                                                                                                                                    1 point
      The Service Management System (SMS) deployed in Internet Service Providers, manages which of
      the following items?

    Session status.

    Network Information.

                 c. Subscriber Information.
                 d. Policies.
                 e. All of these
    a.
    b.
    О c.
   O d.
    O e.
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  e.
                                                                                                                                    1 point
      The periodic data generated by a temperature sensor in a blast furnace is an example of which of
      the following?
                 a. Absolute data
                 b. Relative data
                 c. Temporal data
                 d. Invalid data
                 e. Temporary data
   a.
    b.
   Ос.
    d.
   ○ e.
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
                                                                                                                                    1 point
      Which of the following is a temporal data in the example of Anti-missile system?
                 a. Current position of missile
                 b. Current velocity of missile
                 c. Current acceleration of missile
                 d. All of these
    a.
    b.
   O c.
   O d.
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  d.
                                                                                                                                    1 point
      Suppose, temporal data are denoted using triplets of the form {value, avi, timestamp} and the
      different components of the temporal data have their usual meanings. Assume that, current time =
      2700msec. Which of the following temporal data items are absolutely valid?
                 a. d1=(10, 100mSec, 2300mSec)
                 b. d2=(10, 200mSec, 2400mSec)
                 c. d3=(10, 100mSec, 2500mSec)
                 d. d4=(20, 200mSec, 2500mSec)
                 e. d5=(20, 200mSec, 2600mSec)
   ___ a.
    □ b.
   _ c.
    d.
   _ e.
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  d.
  e.
      Suppose, temporal data are denoted using triplets of the form {value, avi, timestamp} and the
                                                                                                                                    1 point
      different components of the temporal data have their usual meanings. Assume that the relative
      consistency set R = {temp, pressure} and the relative validity interval associated with R (R<sub>rvi</sub>) =
      2mSec. Which of the following temporal data sets are relatively consistent?
                 a. d1=[temp = {347 C, 5 mSec, 95 mSec}, press = {50 bar, 10 mSec, 97 mSec}]
                 b. d2=[temp = {347 C, 5 mSec, 95 mSec}, press = {50 bar, 10 mSec, 92 mSec}]
                 c. d2=[temp = {347 C, 5 mSec, 95 mSec}, press = {50 bar, 10 mSec, 91 mSec}]
                 d. d2=[temp = {347 C, 5 mSec, 95 mSec}, press = {50 bar, 10 mSec, 98 mSec}]
                 e. d2=[temp = {347 C, 5 mSec, 95 mSec}, press = {50 bar, 10 mSec, 96 mSec}]
   ___ a.

    □ b.

   □ c.
   __ d.
   __ e.
  No, the answer is incorrect.
  Accepted Answers:
                                                                                                                                    1 point
      In which of the following concurrency control protocols, when a transaction requests a lock held by
      a lower priority transaction, the lock holding lower priority transaction is aborted?
                 a. 2PL
                 b. Strict 2PL
                 c. 2PL-WP
                 d. 2PL-HP
                 e. PCP
   a.
   O b.
   O c.
    d.
   О е.
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  d.
                                                                                                                                    1 point
      Which of the following values is defined dynamically at run time, in priority ceiling protocol?
                 a. Read-Ceiling
                 b. Write-Ceiling
                 c. Absolute-Ceiling
                 d. Read-Write Ceiling
                 e. All of the above
   a.
    d.
   ○ e.
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
     In Forward OCC protocol, the serialization order is which of the following?
                                                                                                                                    1 point
                 a. The order in which the transactions are aborted
                 b. The order in which the transactions commit
                 c. The order in which the transactions are rejected
                 d. None of these
   a.
    b.
    О c.
    O d.
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  b.
      In which of the following concurrency control protocols, once a transaction reaches its validating
                                                                                                                                    1 point
      phase, it is guaranteed commitment?
                 a. PCP
                 b. Forward-OCC
                 c. OCC-BC
                 d. OCC-Sacrifice
                 e. SCC
   a.
    b.
    ○ c.
    d.
    O e.
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  c.
                                                                                                                                    1 point
     The hard real-time database system MDARTS is a library of which of the following data
      management classes?
                a. C
                b. C++
```

c. C#

d. Java

e. Perl

a.

O b.

О c.

O d.

○ e.

Score: 0

b.

No, the answer is incorrect.

Accepted Answers: