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ADIT/BIT PROGRAMME

Term-End Examination

June, 2010

CST-302 : ENGLISH

Time : 3 hours

Maximum Marks : 75

Note : This paper consists of two sections. All questions are compulsory in Section-A. There are three questions in Section - B. Attempt any two questions from Section B.

SECTION-A

1. OLAP stands for : 1
 - (a) On Line Analytical Processing
 - (b) Off Line Analytical Processing
 - (c) On Line Axial Processing
 - (d) On Line Analytical Program

2. ETL tools, used in data ware housing, stands for : 1
 - (a) Extraction, Transaction and Loading
 - (b) Encapsulation, Transparency and Logic
 - (c) Enter, Transport and Leave
 - (d) All of the above

3. Which of the following is a JDBC, API ? 1
- (a) java.sql
 - (b) java.net
 - (c) java.io
 - (d) all of the above
4. Languages generally used in semantic databases : 1
- (a) prolog
 - (b) USP
 - (c) both (a) and (b)
 - (d) none
5. Deductive reasoning forms the basis of : 1
- (a) knowledge databases
 - (b) client server databases
 - (c) personal databases
 - (d) mobile databases
6. Components of star schema are : 1
- (a) Fact tables
 - (b) Dimension tables
 - (c) both (a) and (b)
 - (d) none
7. Hiding the information about position of data, from user, in a distributed environment is called : 1
- (a) positional transparency
 - (b) location transparency
 - (c) fragmentation transparency
 - (d) none

8. Occurrence of any type of failure in a distributed environment affect : **1**
- (a) Transparency of data
 - (b) Serializability of data
 - (c) both (a) and (b)
 - (d) none
9. What are the contents of multimedia databases ? **1**
- (a) Media data and its format
 - (b) Media key work data
 - (c) Media feature data
 - (d) All of the above
10. Multidimensionality of data in Database refers to : **1**
- (a) Denormalization of data
 - (b) Normalization of data
 - (c) Formatting of data
 - (d) None of the above
11. (a) Compare and contrast (any two) : **5**
- (i) OLTP and OLAP
 - (ii) JDBC and ODBC
 - (iii) Relational Data Bases and Object Oriented Databases

- (b) Write short note (any two) : 5
- (i) Distributed Databases
 - (ii) Data mining
 - (iii) Star schema
- (c) Briefly describe the java technologies which are suitable to develop the client-server Database application ? 5
- (d) Under certain circumstances it is beneficial to use filebase system than a Database system, justify. 5
- (e) What are multimedia databases ? What is the utility of multimedia databases ? 5

SECTION - B

12. How distributed DBMS has an edge over centralised DBMS ? Give example of any two real world situation where you came across DDBMS and centralised DBMS ? Give at least two advantages and disadvantages each of centralised and Distributed databases. 20
13. Describe the following terms and, how following terms are related Dataware house, Datamart, Datamining ? Give detailed description for portraying the relation. 20
14. Why are traditional DBMSs inadequate to decision support ? How this problem can be dealt with data warehouse ? Explain with the help of a real life example. 20
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