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ADIT/BIT PROGRAMME

Term-End Examination

December, 2010

**CST-302 : ADVANCED DATABASE
MANAGEMENT**

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

Each objective type question carries 1 mark.

1. OLAP stands for :
 - (a) Over Lapping
 - (b) Online Analysis and Processing
 - (c) Over Lap Access Protocol
 - (d) None

2. In Datawarehouse the collected data is :
 - (a) Normalized
 - (b) De-normalized
 - (c) Neutralized
 - (d) All of the above

3. In the client-server environment, which of the following can not work ?
 - (a) File System
 - (b) RDBMS
 - (c) NDBMS
 - (d) None

4. Number of layers in OSI and TCP/IP models are :
 - (a) 7, 7
 - (b) 5, 5
 - (c) 7, 5
 - (d) 5, 7

5. UML is the tool for :
 - (a) structured Modelling and Designing
 - (b) OOMD
 - (c) Real time systems
 - (d) None

6. In TCP/IP protocol, TCP and IP are :
 - (a) connection oriented and connection less network protocols
 - (b) connection less and connection oriented network protocols
 - (c) wireless protocols
 - (d) None

7. In which source code type, written in Java, the term `public static void main (string args [])` is absent ?
- (a) Application
 - (b) Applets
 - (c) both (a) and (b)
 - (d) none
8. A malicious computer program that has capability to multiply and spread is known as :
- (a) Virus
 - (b) Worm
 - (c) Trojan
 - (d) all
9. Which of the following are used for Business Intelligence ?
- (a) Datawarehousing and Datamining
 - (b) OLTP and OLAP
 - (c) both (a) and (b)
 - (d) none
10. Hiding information from the user about the location, replication, fragmentation etc. of data in a Distributed database is known as :
- (a) Transparency
 - (b) Opacity
 - (c) Translucency
 - (d) none

11. What are Semantic databases ? Give two real world applications of semantic databases. 5
12. What are Multimedia databases ? Explain with the help of examples. 5
13. In a Distributed environment, what do you mean by the term "Transparency" ? Briefly describe the various types of Transparencies existing in Distributed databases ? 7
14. Compare and contrast the following (Any two) : 8
- (a) Applet and Application
 - (b) Database and Datawarehouse
 - (c) JDBC and ODBC

SECTION - B

15. How OLTP, OLAP, Datawarehousing and Datamining can be used as tools to strengthen business decision making ? Justify your answer with suitable arguments. 20
16. Which type of database do placement consultant companies, do prefer to maintain and why ? Write the salient features of the database desired to be maintained by the desired placement companies. 20
17. Explain Object Oriented Data model with the help of an example. Why are they required ? What are the advantages and disadvantages of Object Oriented Databases ? Discuss one application of Object Oriented Database System. 20
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