

Advanced Diploma in Information Technology (ADIT) / Bachelor in Information Technology (BIT)

Term-End Examination

December, 2007

CST-302: ADVANCED DATABASE MANAGEMENT SYSTEMS

Maximum Marks: 75 Time: 3 Hours This paper consists of two sections. All questions are compulsory in Section A. Note: There are three questions in Section B. Attempt any two questions from Section B. SECTION A When data to be shared is non-voluminous plus data security is not the issue then 1 which system is appropriate? (a) File base (b) Relational database Semantic system (d) None of the above 2. In Oracle 8i, symbol i represents (a) Client Server model (b) Relational model (c) Hierarchical model (d) None of the above In Oracle 8i, number 8 represents 3. (a) Version (b) Rules implemented Data size (c) (d) None of the above 1 Select * from Student; represents 4. (a) Projection (b) Selection Join (c) (d) None of the above

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5.	Con	nponents of knowledge base systems are
	(a)	Rules
	(b)	Facts
	(c)	Clauses
	(d)	(a) and (b) both
6.	In data	distributed databases the term referred for isolation of user from the knowledge of a fragmentation is
	(a)	Location transparency
	(b)	Fragmentation transparency
	(c)	Both (a) and (b)
	(d)	None of the above
7.	Whi	ch relational algebra operator performs horizontal fragmentation of any distributed abase schema?
. 6	(a)	π
	(b)	σ
	(c)	\bowtie
	(d)	
8.	For	mobile databases which multiplexing is best ?
	(a)	FDM
	(b)	TDM
	(c)	SDM
	(d)	None of the above
9.	Wh	ich database designing technique can be used for programming also?
• ()	(a)	Object oriented modelling and designing
	(b)	ER diagram
	(c)	Both (a) and (b)
	(d)	None of the above



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10.	Dat	a Warehousing is related to	1
	(a)	Strategic usage of data	
	(b)	Operational usage of data	
	(c)	Collection of unused data	
	(d)	None of the above	
11. ·	(a)	Compare and contrast the following:	5
		(i) Centralized DBMS and Distributed DBMS	
		(ii) 3NF and BCNF	
	(b)	Describe Client-Server database model with the help of a suitable example.	5
	(c)	What is the need of OODM (Object Oriented Designing and Modelling)? How does OODM differ from ER diagram?	5
	(d)	What do you mean by the term "Personal Databases" ? Mention security risks in personal databases.	5
	(e)	Is it always beneficial to use databases or is a file base system a better option?	





12.

SECTION B

Define the term Data warehousing. Describe the characteristics of Data warehouse.

Answer any two questions from this section.

location transparency.

13.	What are Distributed databases? Give two advantages and two disadvantages of
100	Distributed databases. In Distributed databases, what is the need of replicating and
	fragmenting the data distribution? With the help of an example describe the term

With the help of a block diagram discuss the architecture of a Data warehouse.

14. How JDBC differ from ODBC? How can we establish the JDBC-ODBC connectivity? In order to strengthen the security, which of the two connectivities is better and why? Describe the basic working of JDBC with the help of a program.

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