Total No of Questions: [12]

SEAT NO.:	

[Total No. of Pages: 2]

## B.E. 2008 (ADVANCED DATABASE MANAGEMENT)

## (Elective - I) (Semester - I)

	e: 3 Ho		ks: 100
		o the candidates:	
		ers to the two sections should be written in separate answer books.	
		ot Q.1or Q.2, Q.3or Q.4., Q.5or Q.6 from section I. ot Q.7or Q.8, Q.9or Q.10., Q.11or Q.12 from section II	
4)	_	liagrams must be drawn wherever necessary.	
5)		es to the right side indicate full marks.	
6)		Calculator is allowed.	
7)	Assun	ne Suitable data if necessary	
		SECTION I	
Q1)	a)	What is PL/SQL Engine? Draw PL/SQL BLOCK structure. Explain each block.	[8]
	b)	Describe the working of cursor and types of cursors in PL/SQL.  OR	[8]
Q2)	a)	Explain the need of packages and describe the package in detail with its	[8]
		advantages.	
	b)	Compare the Embedded SQL and dynamic SQL.	[8]
02)			
Q3)	a)	Write a short not on	[16]
		i)Main Memory Database	
		ii)Real Time Transaction system	
		OR	
Q4)	a)	What is Transactional Workflow explain in detail with example.	[8]
	b)	Explain the Optimistic concurrency control protocol for Multidatabase System.	[8]
Q5)	a)	Describe XML query algebra operation. Describe FLWOR expression with	[9]
		example.	507
	b)	What is Persistent object? Explain the approaches to make the Object Persistent <b>OR</b>	[9]
Q6)	a)	What is XML Schema.? Explain with example.	[9]
	b)	Where you would need to use Complex data types? How would you	[9]
		declare structured types using SQL: 1999?	
		SECTION II	
Q7)	a)	Discuss the features of Star, Snowflake and Fact Constellation schema of Data	[9]
		Warehouse, Compare the above three schemas.	
	1)		[0]
	b)	Explain Kimball database design methodology for data warehouse.	[9]

## OR

Q8)	a)	Present a diagrammatic representation of typical architecture and main components of data warehouse.	[9]
	b)	What is the need of extraction, cleaning and transformation while building data warehouse? Give examples to support your answer.	[9]
Q9)	a)	Explain Aproiri Algorithm with example.	[8]
	b)	What is Data cube? Explain the different operations on data cube.  OR	[8]
Q10)	a)	What is Decision tree? How decision tree is used for classification?	[8]
	b)	What is OLAP benchmark? List the applications and Benefits of OLAP.	[8]
Q11)	a)	Explain what is the need of granting and revoking privileges.	[8]
	b)	Explain different security and integrity threats to the database.	[8]
		OR	
Q12)	a)	What is authorization and encryption in terms of providing security for database?	[8]
	b)	Explain the statistical database security.	[8]