P3410

[4959]-184

B.E. (Information Technology) a:ADVANCED DATABASE MANAGEMENT (2008 Course) (Semester -I) (Elective - I)

Time : 3 Hours/ Instructions to the candidates:

- 1) Answer Question 1 or 2, 3 or 4, 5 or 6 from section I and Question 7 or 8, 9 or 10, 11 or 12 from section II.
- Figures to the right indicates full marks. 2)
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Assume suitable data, if necessary.
- 5) Answers to the two sections should be written in separate books.

SECTION-I

Q1)	a)	Define Triggers. Explain any two types of trigger in detail with suitable example. [8	le 8]			
	b)	Explain different PL/SQL transaction types. [8	8]			
OR						
Q2)	a)	Write a PL/SQL procedure which gets the name of the employee whe employee id is passed as the parameter.	en 6]			
	b)	Write a cursor for retrieving the records from the student table and displaying them one by one.	nd 8]			
	c)	What do you mean by Packages. [2	2]			
Q3)	a)	Define transactions. Explain ACID properties. [8	8]			
	b)	Explain Real time transaction systems. [8	8]			

OR

SEAT No. :

[Max. Marks :100

[Total No. of Pages :3

Q4) a)	Describe in detail the concept of locks with examples.	[8]			
b)	Explain the following:	[8]			
	i) Timestamping concurrency control				
	ii) Optimistic concurrency control				
Q5) a)	Explain in detail Object based databases and XML.	[10]			
b)	Write a short note on document schema.	[6]			
c)	Describe Array in SQL.	[2]			
OR					
Q6) a)	Write short note on structures types and inheritance.	[8]			

b) Consider the following nested relational schema [10]

Std= (sname, Subjectsset setoff(Subjects), Addressset setoff(Address) Subjects = (name, Marks), Marks = (Term 1, Term 2, Terms 3) Address = (street City)

Answer the following:

- i) Write DTD and XML file
- ii) Write a query in XPath to list all students.
- iii) Find the name of all the students who live in the city 'Pune'.
- iv) Find those students who failed in the subject 'Chemistry'.
- v) List all student's marks in the subject 'Physics'.

SECTION-II

Q 7) a)	Write in detail about Data warehousing and it's architecture.	[8]
	\mathcal{B}	L - J

b) Write a short note on Meta data in Data warehousing. [8]

OR

[4959]-184

2

Q8) a)	Explain Data warehousing technologies (ETL) in detail.	[12]						
b)	Explain in detail about concept of data mart.	[4]						
Q9) a)	Explain decision tree algorithm with suitable example.	[12]						
b)	Explain in detail about extensions to SQL.	[6]						
OR								
Q10) a)	What do you mean by OLAP beanchmarks? Explain application benefits.	ns and [12]						
b)	Write note on Bayesian classifier.	[6]						
Q11) a)	Explain Security issue based on granting/revoking of privileges.	[12]						
b)	Write note on auditing and control.	[4]						
	OR							
Q12) Wi	rite short note on following:	[16]						
a)	Object Oriented Databases.							
b)	Multi sets in SQL.							
c)	XML Applications.							
d)	Dimensionality modeling.							

ささき

[4959]-184