Exam. Code : 103205 Subject Code : 1178

B.A./B.Sc. 5th Semester COMPUTER SCIENCE

(Database Management System & Oracle)

		51.51 E-2-32 E-2-20 E-3-3
Tin	ne Al	lowed—3 Hours] [Maximum Marks—75
Not	te :	-Attempt any FIVE questions. All questions carry equal marks. The students can use only non-programmable and non-storage type calculator.
1.	mar	cuss the three level architecture of database nagement system. Explain the various types of data ependence. How mapping is performed between erent levels of database architecture? Explain.
2	W/L	
2.		at are the different threats to the security of
		abase? How can security of database be enforced?
	Exp	plain. 15
3. Write short not		te short notes on following:-
	(a)	Distributed Databases 5
	(b)	Knowledge Base Systems 5
	(c)	Object Oriented Databases. 5
4.	(a)	What is Normalization and explain Domain Key
		Normal Form ?
	(b)	Differentiate between relational algebra and
		relational calculus. 5
2050	2110	DAG-6755 1 (Contd.)
4031	41101/	DAG-6755 1 (Contd.)

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5. (a) Compare the features of Network, Hierarchical and Relational model with the help of examples. 10 (b) Explain the ACID properties of the transaction. 5 6. Write the relational algebra, relational calculus and SQL queries for the following: Loan (branch-name, loan-number, amount) Borrower (customer-name, loan-number) Account (account-no, branch-name, balance) Depositor (customer-name, account-no) (a) Find all loan numbers for loan with amount greater than Rs. 1,500. (b) Find the names of all the customers who have the loan from the "XYZ" branch and find the loan amount. 7.5 7. (a) Explain the difference between a FUNCTION, PROCEDURE and PACKAGE in PL/SQL. 10 (b) Explain Implicit and Explicit cursors. 5 8. (a) What are database triggers and explain the types of triggers? (b) If a table contains duplicate rows, does a query result display the duplicate values by default? How can you eliminate duplicate rows from a query result?			
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How can you eliminate duplicate rows from a query result?		(b)	(B. B. B
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