## B.Sc. (Part—II) Semester—IV Examination COMPUTER SCIENCE/COMPUTER APPLICATION/INFORMATION TECHNOLOGY (New)

	(RDBMS	and PL/SQL)	
Time: Th	ree Hours]	[Maxi	mum Marks: 80
N.B. :-	(1) ALL questions are compulsory		
	(2) Question No. 1 carries 8 mark	s and all other questions carry 1	2 marks each.
	(3) Assume suitable data and draw	well labelled diagram wherever	necessary.
1. (A)	Fill in the blanks:		
	<ol><li>BCNF stands for</li></ol>		
	(ii) clause is used to so	t the contents of table.	
	(iii) function measures all	the rows in entire table.	
	(iv) section is the execution	on section of PL/SQL.	2
(B)	Choose correct alternative :		
	(i) Non key attribute of one table	becomes primary key of anoth	er table is called
	(a) Primary key	(b) Foreign key	
	(c) Super key	(d) Candidate key	
	(ii) is not SQL compor	ent.	
	(a) DCL	(b) DML	
	(c) DDL	(d) DSL	
		combines matching and non mate	hing rows of two
	tables.		
	(a) +	(b) %	
	(c) *	(d) -	
	(iv) Hierarchical model has		
	(a) One to one	(b) One to many	
(0)	(c) Many to many	(d) Many to one	2
	Answer in one sentence :		
	(i) What is primary key?		
	(ii) What is DBMS ?		
	(iii) What is block in PL/SQL ?		
	(iv) What is privilege?		4
	Describe hierarchical database mod	•	. 6
(B)	Why database systems are more po	pular over conventional file syst  OR	em ? 6
3. (A)	Describe architecture of database sy	stem and explain with diagram.	6
	What is relation? Describe relation		6
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4.	(A)	What is E-R diagram? Describe procedure to reduce E-R diagram into table.	r.com	
4	(B)	Describe the following terms:		
	(1)	(i) Functional dependency		
		(ii) Entity and entity set.	6	
		OR		
5.	(A)	Describe the following terms :		
	()	(i) Attribute		
		(ii) Domain		
		(iii) Relation.	6	
	(B)	What is normalization? Explain 3NF with example.	6	
6.		What is SQL ? Explain components of SQL.	6	
	-	Describe various data types used in SQL with suitable example.	6	
	100	OR		
7.	(A)	Describe the following commands with syntax and example:		
	()	(i) CREATE		
		(ii) RENAME		
		(iii) UPDATE.	6	
	(B)	What is data integrity? Give types of integrity constraints.	6	
8.		A) Describe the following functions with example :		
	. ,	(i) POWER		
		(ii) SIGN		
		(iii) SIN.	6	
	(B)	What is join ? Explain equi join with example.	6	
		OR		
9. (A) Describe with syntax and example :				
		(i) INITCAP		
		(ii) INSTR		
		(iii) RTRIM.	6	
	(B)	Describe various date functions with syntax and example.	6	
10		What is cursor? How to use explicit cursor? Describe with example.	6	
		Describe loop centrol structure in PL/SQL with example.	6	
		OR		
11.	(A)	Describe datatype support by PL/SQL with example.	6	
	(B)	What are various cursor attributes ?	6	
12	(A)	Explain the following statements with syntax and example:		
		(i) GRANT		
		(ii) REVOKE.	6	
	(B)	How to secure databases? Explain.	6	
		OR		
13	. (A)	What is transaction? Describe various transaction control statements.	6	
		Describe various levels of data locking in SQL.	6	
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