

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

					(RDBMS a	and PL/SQL)			
Tim	e : T	hree	Hou	ırs]			[Ma	aximum Mar	ks : 80
N.B	s. :—	(1)	AL	L questions are	compulsory.	Si .			
	(2) Question No. 1 carries 8 marks and all other questions carry 12 r							12 marks e	ach.
		(3)	Ass	ume suitable d	ata and draw	and draw well labelled diagram wherever necessary.			
1.	(A)	Fill	in the blanks:						
		(i)	BCNF stands for						
	(ii) clause is used to sort the contents of table.								
		(iii)		function	function measures all the rows in entire table.				
		(iv)	section is the execution section of PL/SQL.						2
	(B)	Cho	ose correct alternative :						
(i) Non key attribute of one table becomes primary key of another								other table is	called
				<del></del> :					
			50 .00	Primary key			Foreign key		
		···	100	Super key	202	0.500.50	Candidate key	1	
		(ii)		is not	SQL compone		D) (I		
			2.0	DCL		(b)			
		(iii)	8.08.	DDL outer join	apareter a		DSL	atabina nassa	. C t
		(111)	tabl		operator c	omomes mate	hing and non m	atching rows	or two
			(a)			(b)	%		
			(c)			(d)	-		
		(iv)	0.5	rarchical model	has				
		()		One to one			One to many		
			0.0	Many to many	y		Many to one		2
	(C)	Ans		in one sentence			T		
				at is primary k					
		(ii)	Wh	at is DBMS?	2	74			
		(iii)	Wh	at is block in I	L/SQL ?				
		(iv)	Wh	at is privilege	?				4
2.	(A)	Des	scribe hierarchical database model with example.						6
(B) Why database systems are more popular over conventional file s								ystem?	6
						OR			
3.	(A)	) Describe architecture of database system and explain with diagram.							6
	(B)	Wha	at is	relation? Desc	cribe relationa	al database mo	odel.		6
	29 (8908)								
VRC	152	04				516			(Contd)

## (A) What is E-R diagram? Describe procedure to reduce E-R diagram into table. (B) Describe the following terms: (i) Functional dependency (ii) Entity and entity set. 6 OR 5. (A) Describe the following terms: (i) Attribute (ii) Domain 6 (iii) Relation. 6 (B) What is normalization? Explain 3NF with example. 6 (A) What is SQL? Explain components of SQL. (B) Describe various data types used in SQL with suitable example. 6 OR (A) Describe the following commands with syntax and example: 7. (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 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. (A) What is cursor? How to use explicit cursor? Describe with example. 6 (B) Describe loop centrol structure in PL/SQL with example. 6 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 (B) Describe various levels of data locking in SQL. 6