(i)) Printed Pages: 2			Roll No		
(ii)	Que	estions	:9 S	ub. Code: 0 9 4 1		
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	В	Bachelor of	f Computer A _I 105	oplications 4th Semester 9		
		DATAB	ASE MANAG	SEMENT SYSTEM		
			Paper-BCA	A-16-405		
Tim	e Allo	wed: Thr	ree Hours]	[Maximum Marks : 65		
Note	e :—	Attempt f	f ive questions in	all, selecting at least one question		
				9 is compulsory.		
			UNIT			
1.	(a)	What is m	neant by Databa	se Management System? Discuss		
		the features that give it an edge over traditional file system.				
	(b) Explain the three tier architecture of Data			itecture of Database Management		
		System.		6,7		
2.		Distinguish between:				
	(a)	Physical a	and Logical Dat	ta Independence		
	(b)	Schema and Instances				
	(c)	Attributes	s and Entity.	13		
			UNIT	`–II		
3.	(a)	Illustrate using example the Normalization of database upto 3NF.				
	(b)	Compare	and contrast thro	ee different data models of DBMS. 7,6		
0041	/EAG	1 1 (0 1				
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4. (a) State 12 Codd's Rules for RDBMS. (b) What are functional dependencies? How is decomposition related to it? Discuss desirable properties of decomposition for an effective database design. 5,8 UNIT-III 5. Explain the following clauses with example queries: (i) Group by (ii) Order by (iii) Aggregation functions. 13 What are Views? Why are they significant in DBMS? 6. (a) (b) How are Commit and Rollback different? Explain through examples. 6,7 **UNIT-IV** 7. What is a Join? Discuss the following types of joins: Cartesian Join (a) (b) Equi Join (c) Outer Join (d) Self Join. 13 (a) Throw light on the block structure of PL/SQL. 8. What are Cursors? How is Explicit Cursor different from (b) Implicit Cursor? How are Cursors Managed in PL/SQL? 4,9 UNIT-V (Compulsory Question) State Integrity Rules. 9. (a) What are Triggers? (b) Discuss the functions of a DBA. (c) How are generalization and aggregation represented in E-R (d) Diagrams? 3,3,3,4