This question paper cont	ains 3 printed pages]	
	Roll No	
S. No. of Question Paper	: 5314	
Unique Paper Code	: 234251	D
Name of the Paper	: Database Management and S	Systems (DBMS)
Name of the Course	: B.A. (Prog.)	
Semester	: II	
Duration: 3 Hours		Maximum Marks: 45
(Write your Ro	ll No. on the top immediately on re	eceipt of this question paper.)
	Section A is compulso	ry.
	Attempt any three questions from	n Section B.
	Section A	•
1. (a) Define the fol	lowing:	2.
(i) Primary	key	
(ii) Foreign	key.	
(b) What is the o	lifference between data and inform	mation?
(c) Give full form	ns of:	2
(i) SQL		
(ii) DDL.		
		P.T.O.

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	(d)	Differentiate between: Entity and Attribute.	2
	(e)	Write the syntax of the following SQL commands:	2
		(i) UPDATE	,
		(ii) DELETE.	
	(f)	Describe the need for data normalization.	2
	(g)	Name the various types of relationships that exist in a database.	3
		Section B	·
2.	(a)	With the help of a diagram, explain the three layered architecture of DBMS	S. 6
	. (b)	A database consists of the following tables:	4
		DEPT(DNO, DNAME, HOD, DYEAR)	
		COURSE(CNO, CNAME, NO_STUD, DEPT)	
		Write queries in SQL for the following:	
		(i) Display the names and number of students in each course.	•
		(ii) List the name of "HOD" for those departments which were set u	p before
		2000.	
3.	(a)	What do you understand by data redundancy? What are the disadvantage	s of data
		redundancy?	4
	(b)	Differentiate between: Entity integrity and Referential integrity.	4
	(c)	What do you understand by functional dependency ?	2

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4.	(a)	What are the main characteristics of a relational table ?	4
	(b)	What is a business rule? What is the purpose of data modeling?	6
5.	(a)	Write the steps to convert the data to first normal form. Explain with an exa	ample.
			2+2
	(b)	Briefly describe any three data models with suitable example.	6
6.	(a)	Briefly describe any three data types supported by ANSI SQL.	3
	(b)	What do you understand by SQL CONSTRAINTS? Briefly describe any thr	ee SQL
		CONSTRAINTS.	1+6