month of September.

Exam Roll No.

END TERM EXAMINATION

SECOND SEMESTER [BCA] MAY-2008

	r Code:BCA-110 r ld: 20110	Subject: Database Management Systems Batch (2005-2007)			
	: 3 Hours	······································		Maximum Marks	:75
Note:	Qi. is compulsory. Rest of the quest	ions have inte	rnal choice.		
	Q. i.e domparees ys				
Q1.				(2.5 x 10)=25)
	 (a) Differentiate between physical da (b) What is spanned record organizat (c) State various relational database (d) Illustrate normalization \(\mu\) (e) Differentiate between composite a 	tion? design guidelir	es.	maependence.	
	 (f) Distinguish between Primary key, (g) Define referential Integrity constra (h) How do you get 3NF from 2NF? (i) Explain Hashing. 	candidate key	& super key.		
	(j) Define Audit Trail.				(40)
Q2.	What is timestamp? How does system	OR			(10)
	Write down all the steps of Entity Rela	ationship to Tal	ole mapping.		(10)
Q3.	(a) What is deadlock & how can it be prevented? (b) What is 2 phase locking and 2 phase commit protocols. OR				(5) (5)
	What is an ER diagram? How is EER different from E-R model. Construct an ER diagram for banking enterprise covering all major activities.				(10)
Q4.	Explain different mechanism of concurrency control. Define Pros & cons of each. OR				(10)
	Illustrate in detail about all Raid level.				(10)
Q5.	What is a join? Write all categories of joins (theta join, equi join, outer join, self join).				(10)
	Consider a relation schema R(a, b, c, d, e, f) having functional dependencies.				(10)
	$A b \rightarrow c$				
	b →a				
	d → c				
	e → ar				
	$f \rightarrow a$ Normalise this relation upto 3NF.	,			
Q6.	Write SQL queries for:				(10)
	Fname Lname SSN	V Ad	dress Salary	DNO	
	(i) Retrieve first name. Last name of	f employees w	no work in Departm	ent number 5.	
	(ii) Retrieve the employees whose salary is greater than 5000. OR Write SQL statements for the following table;				(10)
	Customer Lname	Fname	Area	Phone	
	Oust id Ename				
	Movie	Type	Star	Price	7
	Mv_no Title	Туре	Otal	11100	
	Invoice			Define deta	
	Inv_no Mv_no	Cust_id	Issue_date	Return_date	
•	(a) Display the invoice information for(b) Find the movies of type "horror"(c) Print the information from invoice	and Comedy.		en issued movies in the	е