Seat No.	:	
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## **BB-118**

May-2015

## B.Sc., Sem.-IV

**COM-205**: Computer Science

## (Relational Database Management System)

Tim	e: 3	Hours] [Max. Marks	s : 70
1.	(a)	What is DBMS ? Explain three layer architecture of DBMS.  OR	7
		Define the term DBA. Explain functions and responsibilities of DBA.	
	(b)	What is Attribute? Explain various types of attributes.  OR	5
		What do you understand by Specialization?	
	(c)	Do as Directed: (1) What is RDBMS?	2
		(2) List down disadvantages of file processing system.	
2.	(a)	What do you understand by Entity Relationship Model ? Explain wit participations and role of an entity set.  OR	th <b>8</b>
		What is Relational Algebra? Explain different record based operations wit example.	th
	(b)	What do you understand by ACIDS properties of Transaction ?  OR	4
		What is View Serializability ?	
	(c)	Do as Directed: (1) What is difference between right outer join and full outer join? (2) What is Authorization?	2
3.	(a)	Explain 2NF & BCNF form in detail.  OR	7
		What is Concurrency Control? Explain common problems of it.	
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	(b)	Write	e short note on Lock Granularity.	5	
	(c)	Do as (1) (2)	Explain two differences between differed and immediate updates.  What is Decomposition?	2	
		(2)	what is Decomposition:		
4.	(a)	Write	e SQL query for the following: (any seven)	12	
		Salesman (snum, sname, city, committion)			
		Customer (cnum, cname, city, rating, snum)			
		Order (onum, amount, odate, cnum, snum)			
		(1)	Give the commands to create out tables (salesmen, customer, orders) with all the necessary constraints like Primary Key & Foreign Key.		
		(2)	Find out the customer in alphabetical order whose name begins with 'G'.		
		(3)	List all customers and salesmen who shared a same city.		
		(4)	List all orders of the customer 'Chandresh'.		
		(5)	Create a view that shows all the customers who have the highest rating.		
		(6)	Create a view that shows all the salesman with multiple customers.		
		(7)	Create another table London staff having same structure as salesmen table.		
		(8)	Create a copy of your order table. Drop the original order table.		
		(9)	Delete all customers with no current orders.		
		(10)	Double the commission of all salesman of London.		
	(b)	Do as	s directed :	2	
			t is Grant & Revoke command ?		
5.	(a)	What	t is loop? Explain in detail with types, syntax and example.  OR	5	
		What	is Procedure? Explain in detail with example.		
	(b)	Explain PI/SLQ block in detail with variable creation.			
	(c)	Do a	s directed :	2	
	(0)	(1)	In which type of event trigger can be fired ?	_	
		(2)	What is Modular Design?		

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