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210		210	2		210		210	MGT-405	5D 210			
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DATABASE MANAGEMANT												
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210		210 The f	igures ii	n the rigi	ht hand m	nargin ir	ndicate ma	irks. 210	210			
Q1		Answer	the follow	wing que	stions:			((2 x 10)			
	a)	a) Define DBMS .										
	b)	b) Data redundancy leads to data inconsistency, justify?										
210	c)) What is recursive relationship? Explain with an example.							210			
	d)	Differentiate database schema and database state .										
	e)	What are										
	f)	Explain, What is										
210	g) h)											
	i)	Write any two SQL group functions. List the commonly accepted threats to data base security.							210			
	., j)	What do you mean by a transaction ?										
	37		-	,								
Q2		Case St	udy:						(10)			
210		210	2		210		210	210	210			

Consider a bank database with the following information: A bank has many branches and a large number of customers. A customer can open different kinds of accounts with the bank. The bank keeps track of a customer by his A/C No., name, address and phone number. There are different types of loans, each identified by a loan number. A customer can take out more than one type of loan, and all branches can give loans. Loans have a duration and interest rate. The account holder can enquire about the balance in his account. Draw an ER diagram for the bank. Discuss the main characteristics of the database approach. How (10)does it differ from traditional file systems? What is referential integrity constraint? Explain the concept of (5) foreign key with an example. Discuss SELECT and PROJECT operations of Relational Algebra (5)with examples. 210 Consider the following schema (10)STUDENTS (regdno, name, semester) COURSES (cno, cname, instructor name) ENROLLS (regdno, cno, year) Where regdno is the registration number of a student, cno and cname represents course number and course name of a course respectively. Answer the following queries in SQL a) List the registration numbers of 4th semester students. b) Find the name of the instructor(s) who will teach DBMS. c) Find the registration numbers and names of students who are enrolled in the year 2015. . d) Find the instructor(s) who are assigned more than two subjects...

keys of R

Given a relation R(A,B,C,D,E) and a set of functional

dependencies F={AC->BD,B->AE.,E->CD}. Find the candidate

(5)

Q3

Q4

Q5

Q6

a)

a)

b)

	b)	What is norm	(5)					
Q7 ₂₁₀	a)	210	is a need for or recovery from	210	210	cuss the	(5) 210	
	b)	Define DDMS. Write the advantages of distributed databases.						
Q8		Write short not a) Data N b) DSS c) Data N		210	210	210	(5 X 2) ²¹⁰	
210		d) Backu	p strategies	210	210	210	210	
210		210	210	210	210	210	210	
210		210	210	210	210	210	210	
210		210	210	210	210	210	210	
210		210	210	210	210	210	210	