Registration no:																
Tota	ıl Nu	ımber of Pag	ges: 02								_	MBA 15MNG304D				
3 rd Semester Pegular Evamination 2017-18											210					
210		210			210			210			21			210		210
Q1		Answer the following questions by choosing the appropriate answer from the given choices.													(2x10)	
	a)	•	view in a database that appears to an application program is known as											vn as		
210	b) c) d) e) f)	(i)Schema (ii)Subschema (iii)Key (iv)super key Which level of data abstraction describes actual storage of data? (i)Physical Level (ii)Conceptual Level (iii)Logical Level(iv)All the above An entity type that does not have sufficient attributes to form a key is known as (i)Strong Entity (ii)Identifying Entity(iii)Weak Entity(iv)Null entity Which of the following may be regarded as metadata? (i)E-R diagram (ii)Table (iii)View (iv)Data dictionary Which of the following is not a unary operation? (i)Select (ii)Union (iii)Project (iv)Rename. Which of the following makes the transaction permanent in the database (i)View (ii)Commit (ii)Rollback (iv)Flashback ———————————————————————————————————										210				
210	j)	attributes. (i)Second (ii) Which of the (i)First (ii)Fou	follow	ving n	orma	form	is ba	sed c	n mu	lti va	21 lued o		dency	210		210
Q2		Answer the f	follov	ving (quest	ions	:								(2 x 10)	
	a)	What is data	redur	ndand	y and	wha	t are i	ts dis	advar	ntage	s?					
	b)	What is recur	sive r	relatio	onship	? Giv	e an	exam	ple.							
210	c)	Write the₂use	of U	PDAT	E₂sta	teme	nt in S	SQLv	vith e	kamp	le. 21			210		210
	d)	What are the	-			of DB	A?									
	e)	What is data		_			0 1.0				•••					
	f)	What are Wild						vvrite	their	use	with e	xamp	ole.			
	g)	What is a log		•				ata h	200	oour:	ts /					
	h) i)	List the comn What is mean	-		•					eculi	-					
210	i) j)	What is OLTF	-		210			210	AII :		21			210		210
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ųз		projects. Suppose that after the requirement collection and analysis phase, the database designers provide the following descriptions of the part of the company to be represented in the database:	(13)						
210		The company is organized into departments. Each department has a unique name, a unique number and a particular employee who manages the department. A department may have several locations. A department controls a number of projects, each of which has a unique name, a unique number and a single location. We store each employee's name, address, salary, sex and the date of birth. An employee is assigned to one department but may works on several projects, which are not necessarily controlled by the same department. We keep track of the direct supervisor of each employee. We want to keep track of the dependents of each employee for insurance purposes. We also keep track of dependent's name, sex date of birth and relationship to the employee.		2					
		Construct an E-R diagram for the company database							
Q4	a)	EMPLOYEE(<u>Eid,Ename,</u> Degn,Sal,Dno)							
		DEPATRMENT(<u>Dno</u> ,Dname,Dloc) Where Eid represents employee's id, Ename represent employee's name, Degn							
210		represents designation of the employee, Sal represents monthly salary of an employee, Dno represents department number, Dname represents name of the		2					
		department ,Dloc represents location of the department and the key fields are underlined.							
		Write SQL for the followings: Find the names of employees who earns more than 15000/- per month.							
	b)	Retrieve names and salaries of the employees who works for HR department. Define DBMS. Discuss the advantages of database system over traditional file based approach	(7)						
210 Q5	a)	Define functional dependency. Write inference rules .Why Armstrong's	(8)	2					
	b)	inference rules are called as sound and complete. Discuss SELECT and PROJECT operation of relational algebra with example.	(7)						
Q6	,	Why do you require normalization? Define first, second and third normal forms.	(15)						
		Decompose a relation R(A,B,C,D,E,F,G,H,I,J) into 2NF and 3NF relations, given a set of functional dependencies $F = \{AB \rightarrow C, A \rightarrow DE, B \rightarrow F, F \rightarrow GH, D \rightarrow IJ \}$.	(13)						
Q7	a)	What is Distributed Database Management System? How is it different from	(8)	2					
	b)	Client-Server model? Write the advantages of DDBMS. Define a transaction. State and explain the desired properties of transaction.							
Q8	_	Write short notes on (any THREE) :							
	a) b)	Database Languages Database security measures.							
210	c) e)	Data Fragmentation. 210 210 210 210 210		2					