

BRAINWARE UNIVERSITY

Course - MAMW

Database Management System (MMW104)

(Semester - 1)

Time	Full N	Full Marks: 70			
[The	figure	in the margin indicates full marks. Ca their own words as fa		-	nswers in
		Group	—A		
		(Multiple Choice	Гур	e Questions) 1	$0 \times 1 = 10$
1. (i)		se the correct alternative from the fold is not a database management softw		•	
	a.	Oracle	b.	MS-SQL server	
	c.	MySQL	d.	Notepad	
(ii)	In the	E-R diagram the entity is represented	l as_	·	
	a.	Square	b.	Circle	
	c.	Double rectangle	d.	Rectangle	
(iii)	The "	A" in ACID property stands for			
	a.	Atomicity	b.	Action	
	c.	Amount	d.	Access	
(iv)	CRE	ATE in SQL is a			
	a.	DML command	b.	DCL command	
	c.	DDL command	d.	DQL command	

(v)	Online Transaction history stored in					
	a. Database	b. Word file				
	c. Web server	d. None of these				
(vi)	Transitive dependency get removed in_					
	a. 1 NF	b. 2NF				
	c. 3NF	d. None of these				
(vii)	The primary key is chosen from					
	a. Candidate keys	b. Unique keys				
	c. Files	d. None of these				
(viii)	How we can delete a row using SQL?					
	a. Delete	b. Drop				
	c. Del	d. Truc				
(ix)	The multivalued dependency is not pres					
	a. 3 NF	b. BCNF				
	c. 2NF	d. 4NF				
(x)	Normalization is used in database to rea	move				
	a. Bad functional dependencies	b. Good functional dependencies				
	c. Network connection	d. CPU power				
	Gro	up – B				
	(Short Answer Type Questions)					
Ansv 2. 3.	wer any <i>three</i> from the following What are the advantages of database mans What is a multimedia file? How we can st	tore data in a table in database?	[5] [2+3]			
4. 5.	What is a relational data model? What is an weak entity? [3 + 2] What are the basic properties of a good database management software? [5]					
6.	How normalization helps to design a good	<u> </u>	[5]			

Group - C

 $3 \times 15 = 45$ (Long Answer Type Questions) Answer any three from the following What is foreign key? Briefly explain with example. [5] (b) Write down the basic properties of a transaction. [10] 8. (a) Briefly explain the concept of multimedia database. [5] Explain 3NF and BCNF in database normalization. [10] (b) 9. (a) What is a DDL and a DML in structure query language (SQL)? [5] What is a transaction processing steps? Briefly explain. [10] 10. Draw an E-R diagram of a banking system. Consider the entities and the relationships according to your choice. [15] Write short notes (Any three) 11. [3X5] Three Scheme architecture (a) (b) Concurrency control techniques. Data definition language (DDL). (c) Logical v/s Physical data independence. (d)