

Enrollment No. FN21 C3304039

Faculty of Engineering

Mid Sem I Examination March - 2023 CS3CO39 Database Management System

Programme: B.Tech. Duration: 1.5 Hrs.

Branch/Specialisation: CSE

Maximum Marks: 30

			Marks	BL	СО	РО	PSO
Q.1	i.	Who created the first DBMS?	1	BLI	COI	PO1	
		a) Edgar Frank Codd					
		b) Charles Bachman					
		c) Charles Babbage					
		d) Sharon B. Codd					
	ii.	Which type of data can be stored in the	1	BL2	COL	POI	
		database?					
		a) Image oriented data					
		b) Text, files containing data					
		c) Data in the form of audio or video					
		d) All of the above					
	iii.	Which of the following is not a type of	1	BL\2	COI	POI	
		database'?					
		a) Hierarchical					
		b) Network					
		c) Distributed					
		d) Decentralized					
	ív.	Which of the following is used to	1	BLI	CO2	POI	
		denote the selection operation in					
		relational algebra?					
		a) Pi (Greek)					
		b) Sigma (Greek)					
		c) Lambda (Greek)					
		d) Omega (Greek)					

	V.	Which is a join condition contains an equality operator:	1	BLI	CO2	PO3
	VI.	a) Equijoins b) Cartesianc) Natural d) LeftWhich is a unary operation:a) Selection operation		BLI	CO2	POI
		b) Primitive operation c) Projection operation d) Generalized selection	,			
		a) Seneralized Selection				
Q.2	įi.	Write any four differences between the	2	BL4	COI	PO2
		data and information.				
1	ii.	Explain the two tier and three tier	4	BL4	COI	PO3
		architecture of DBMS in detail with a				
	iii.	suitable diagram. Write any six differences between	6	BL5	COI	PO2
		conventional file systems and database management systems.	v			
OR	iv.	Explain entity relationship model in	6	BL6	COI	PO3
	-	detail with suitable examples.				
Q.3	i.	Define the relational algebra.Also	2	B1.4	CO2	PO2
		write the types of operations of				
	::	relational algebra.	4	BL4	CO2	D()?
	ii.	Explain the inner join and its types in detail with examples.	4	D1.4	(02	PO2
	iii.	Explain the SQL.Also explain the	6	BL6	CO2	PO3
		languages of SQL (DDL, DML, DCL)				
-		in detail with examples.				
OR	iv.	Explain the basic operations of	6	BL4	CO2	PO2
		relational algebra with examples.				
