Code No.: CS301PC

R20

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## CMR ENGINEERING COLLEGE: : HYDERABAD **UGC AUTONOMOUS**

## II-B.TECH-I-Semester End Examinations (Regular) - February- 2023 DATABASE MANAGEMENT SYSTEMS (Common to CSE, CSC & CSD)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B. Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	question carries to marks and may	
	PART- A	20 Marks)
1. a)	Draw the notations of ER-Diagram?	[2 M]
b)	Discuss about Data Definition language, Data Manipulation language commands with example	? [2 M]
	Define Aggregate Functions?	[2 M]
c)	Discuss the basic form of SQL query?	[2 M]
d)	Illustrate Functional dependency with example?	[2 M]
e)	Illustrate Functional dependency with example.	[2 M]
f)	Define a View and write the syntax of view.	[2 M]
g)	Define schedule and legal schedule.	[2 M]
h)		[2 M]
i)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	[2 M]
j)	Define Indexed Sequential Access Method?	[=]
	PART - B	(50 Marks)
2	Describe the Structure of DBMS?	[10M]
2.	Describe the Structure of DBWS:	
3.	Model the conceptual design of hospital with an ER Diagram.	[10M]
4. a)	Explain relational calculus?	[4M]
b)	•	[3M]
c)	Write a DRC query to find the names of sailors who have reserved boat 103?	[3M]
	OR	
5.	List in detail various types of joins with example.	[10M]
6.	Define normalization? Explain 1NF, 2NF, 3NF Normal forms?	[10M]
	OR	C10147
7.	Define trigger and explain its three parts? Differentiate row level and statement level triggers?	[10M]
8.	Illustrate Concurrent execution of transaction with examples?	[10M]
	OR	F1 63 43
9.	Write in detail about the timestamp based protocol.	[10M]
10.	Compare I/O costs for all File Organizations?	[10M]
	OR	
11.	Compare and Contrast Extendible Hashing with Linear Hashing?	[10M]
11	*******	