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Total No. of Questions: 10]

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[Total No. of Printed Pages : 2

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BPP-1095(B)

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M.Sc. (Previous) Examination, 2022 COMPUTER SCIENCE

(For Due Students)

Paper - MCS-103

(Relational Database Management System)

Time : **3** *Hours*] [Maximum Marks : 100 Attempt five questions in all, selecting one question from each Unit. All Note :questions carry equal marks. Unit-I 10+10=20What do you mean by Structure? Explain different views of Data. 1. 2. Explain Entities with example. Tell the difference between 3NF 4NF. 10+10=20Unit-II 20 3. Explain B-Tree File Organization with an example. Explain Insertion and Updation in database with suitable example. 4. (a) 10

Explain Projection and Join Division Operations with example.

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Unit-III

5.	Write	Write the differences between the DDL and DML. Also explain DCL.					
6.	What	are the different SQL functions ? Explain with example. What do you	1				
	mean	by Constraints ? 8+7-	+5=20				
		Unit-IV					
7.	What	are Locks? Why are they used? What are their advantages and	1				
	disad	vantages ? Explain with example.	20				
8.	Expla	xplain Error Handling in PL/SQL with suitable example.					
		Unit-V					
9.	(a)	What do you mean by Serializability ?	10				
	(b)	Explain Atomicity with suitable example.	10				
10.	(a)	What do you mean by Concurrency Control ?	10				
	(b)	What is recovery ? Explain the various recovery techniques used in	1				
		RDBMS.	10				