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Roll No.:

322516(22)

B. E. (Fifth Semester) Examination, April-May 2020

(Old Scheme)

(CSE Branch)

DATABASE MANAGEMENT SYSTEM

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and attempt any two parts from remaining parts (b), (c) or (d).

Unit-I

- 1. (a) Define Instances and Schemas.
 - (b) What is the importance of DBMS? Enlist drawbacks of Fie processing system.

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	(c)	What is Entity Relationship diagram and its usage?	
		Draw an ER diagram for library management system.	
		Consider Books, Publisher and Member as entities.	
		Assume the attributes. Show relationship among	
		entities and also show primary keys.	7
	(d)	Explain the architecture of DBMS with the help of	
		diagram.	7
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		Unit-II DOMENTA TOCHTANIDARIAN SIRALDA LATI	
2.	(a)	What are the types of Cursor? Write the names of	
		implicit Cursor.	2
	(b)	What are Constraints? Explain different types of	
		constraints.	7
	(c)	What is Relational Algebra? Describe the basic	
		operations of relational algebra.	7
	(d)	What is View? Explain the operations that can be	
		performed on view.	7
		Unit-III	
3.	(a)	What are the different types of anomalies available	
		in DBMS?	2

	(b) Differentiate DDL, DML and DCL statements.	7				
	(c) What is trigger? Explain in detail. Write a PL/SQL program to demonstrate 'before insert' trigger.	7				
	(d) Explain in cursor with example.	7				
	Unit-IV					
4.	(a) What is ACID property in DBMS?	2				
	(b) Define Normalization and its types 1NF, 2NF and 3NF with example.	7				
	(c) Describe multivalued dependency. Explain 4th Normal form.	7				
	(d) Define Transaction. What are the various states of a transaction?	7				
Unit-V						
5.	(a) Define Indexing.	2				
	(b) Enlist Concurrency Control Protocols. Explain any one by considering suitable example.	7				
	(c) Define Recovery. Explain log-based recovery.	7				

d) Explain in brief B+ Tree and Index Sequential Access	
Method.	-
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