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Vivekananda College of Engineering & Technology, Puttur
 [A Unit of Vivekananda Vidyavardhaka Sangha Puttur @]
 Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08

Rev 1.10

<CSE>

<15/11/22>

CONTINUOUS INTERNAL EVALUATION - 1

Dept: CSE	Sem / Div: 5 th A & B	Sub: DataBase Management System	S Code:18CS53
Date:22/11/22	Time: 9:30-11:00am	Max Marks: 50	Elective:N

Note: Answer any 2 full questions, choosing one full question from each part.

QN	Questions	Marks	RB T	CO's
PART A				
1	a Explain the main characteristics of the database approach versus the file processing approach	10	L2	CO1
	b Explain the three-schema architecture with neat diagram. Why do we need mappings among schema levels? How do different schema definition languages support this architecture?	10	L2	CO1
	c Define the following with an example: (i) Weak entity type (ii) participation constraint (iii) cardinality ratio (iv) recursive relationship (v) specialization	5	L2	CO1
OR				
2	a Discuss various components of the DBMS with neat diagram	10	L2	CO1
	b Develop an ER diagram for Airlines database scheme with atleast five entities and specify primary key, structural constraint and week entity type.	10	L2	CO1
	c Define the following terms	5	L2	CO1

1. database 2. database catalog 3. entity 4. snapshot
5. degree of relationship

PART B

<p>3 a Consider the following relational database schema consisting of the four-relation schema: Works(Pname,Cname,Salary) Lives(Pname,Street,City) Located-in(Cname,City) Manager(Pname,mgname) write the SQL query for the following: i) Find the names of all persons who live in the city 'Mumbai'; ii) Retrieve the name of all persons of 'Infosys' whose salary is between 30,000 and 50,000 iii) find the name of persons who live and work in same city iv) write a scheme diagram for the above relations</p>	10	L3	CO2
<p>b Describe the characteristic of Relation with suitable example</p>	10	L2	CO2
<p>c Discuss EQUIJOIN and NATURAL JOIN with suitable example using relational algebra notation</p>	5	L2	CO2
OR			
<p>4 a Explain briefly domain, key, integrity and referential integrity constraints with example</p>	10	L2	CO2
<p>b Describe the set theory based operation on relations with suitable examples</p>	10	L2	CO2
<p>c Explain SELECT and PROJECT operations in relational algebra with example</p>	5	L2	CO2

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Prepared by: Bharathi K/ Shwetha C H