



Dr. Ambedkar Institute of Technology, Bangalore – 56
(An Autonomous Institution Affiliated to Visvesvaraya Technological University, Belgaum)

5th Semester B.E. Degree (Autonomous) Continuous Internal Evaluation - II
Odd Semester 2020-21

Date : 22-12-2020	Sub. Title : Data Base Management System	Timings : 1.30 PM – 2.30 PM
Day : Tuesday	Sub. Code : 18CS53	Time duration : 1hour
Programme : B.E (CSE)		Max marks : 25
Semester : V	CIE – II	Staff in-charge : Mrs. Asha Mrs. Veena Potdar

Q. No.	Note : Answer ALL the questions	Marks	Course Outcomes	BTL* Cognitive Level
1. a)	Briefly discuss the different types of UPDATE operations on relational database. Show with an example constraint violated in each of the update operation.	5 M	CO2	L2
b)	Explain 2NF & 3NF and show how the normalization is achieved in case of a violation with the help of examples.	5 M	CO4	L2
2. a)	Explain any two set operations in relational algebra. Illustrate the same with the help of suitable examples.	5 M	CO2	L2
b)	Explain Multi-valued Dependencies, Fourth Normal Form with examples.	5 M	CO4	L2
	OR			
c)	Consider the following schema Sailors(Sid,Sname,Rating,age) Boats(Bid,Bname,color) Reserves(Sid,Bid,day) Write queries in relational algebra 1. Write the names of sailor who have reserved boat number 103. 2. Display names of sailor who have reserved green and red boat. 3. Find the names of sailors who have not reserved a red boat. 4. Find all sailors with a rating above 7. 5. Find the colors of boats reserved by Andy.	5 M	CO2	L2

BTL* - Bloom's Taxonomy Level

Name & Signature of Faculty

Mrs. Asha -

Mrs. Veena Potdar -

Approved By HOD

Quiz/Objective Type Questions						Sub Code: 18CS53	
Note : Answer ALL the questions							
1	A weak entity type always has a _____ with respect to its identifying relationship						
	A	Total participation constraint	B	Partial Participation Constraint	C	Both A and B	D
2	Phone number is best suited example of						
	A	Multi valued attribute	B	Key attribute	C	Desired attribute	D
3	An entity set that does not have sufficient attributes to form a primary key is a						
	A	Weak entity set.	B	Strong entity set.	C	Simple entity set.	D
4	_____ produces the relation that has attributes of R1 and R2						
	A	Cartesian product	B	Difference	C	Intersection	D
5	Which of the following operation is used if we are interested in only certain columns of a table?						
	A	PROJECTION	B	SELECTION	C	UNION	D
6	Relational Algebra is						
	A	Data Definition Language	B	Meta Language	C	Procedural query Language	D
7	In unary relational operations, the SELECT operation is partition of relation usually classified as						
	A	Vertical partition	B	Insert partition.	C	Horizontal partition	D
8	The operators in SELECT operation statement such as 'and' , 'or' and 'not' are classified as						
	A	Tuple operators	B	String operators	C	Boolean operators	D
9	Which of the operations constitute a basic set of operations for manipulating relational data?						
	A	Predicate calculus	B	Relational calculus	C	Relational algebra	D
10	Which of the following operations need the participating relations to be union compatible?						
	A	UNION	B	INTERSECTION	C	DIFFERENCE	D