

		Register Number		2	1	C	S	R	0	1	4
VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY											
(An Autonomous Institution, Affiliated to Anna University, Chennai)											
Continuous Assessment Test - I						QP Set		1		Regulations-2018	
Programme:		B.E/B.Tech		Semester:		4		Max. Marks:		60	
Duration		2 Hrs									
Course Code & Title:			21CST41 & DATABASE MANAGEMENT SYSTEMS								
Class:21CS4A &4B 21IT4A&B			Date:17.03.2023				Time: 10.30 AM – 12.30 PM				
Knowledge Levels (KL)		K1 - Remembering			K3 - Applying			K5 - Evaluating			
		K2 - Understanding			K4 - Analysing			K6 - Creating			
Part A – 12x2 = 24 Marks											

No		CO	KL
1.	Define database management systems and its applications.	CO1	K1
2.	Show the disadvantages of file processing system.	CO1	K1
3.	What is data model and mention its types?	CO1	K1
4.	Compare DDL and DML Languages.	CO1	K2
5.	Summarize the role of Database Administrator.	CO1	K2
6.	Define weak entity and strong entity.	CO2	K1
7.	Outline the concept of keys and mention its types.	CO2	K2
8.	List out the types of integrity constraints in ER model.	CO2	K1
9.	Define Instance and schemas.	CO2	K1
10.	Compare procedural and non procedural languages.	CO2	K2
11.	List out the Aggregate function supported by SQL.	CO3	K1
12.	How modifications are done on database?	CO3	K1

Part B – 3x12 = 36 Marks

No	Question	Marks	CO	KL
13 (a)	Explain the basic architecture of database management systems.	12	CO1	K2
OR				
13 (b)	Demonstrate the DDL, DML, DCL, commands for the student's database which contains student details : name, id, DOB, branch, DOJ, and course details : Course name, Course id, Stud id, Faculty name, marks.	12	CO1	K2
14 (a)	Develop an E-R Diagram for car insurance company whose customers own one or more cars each. Each car has associated with its zero to any number of record accidents. Each insurance policy covers one or more cars. And has one or more premium payments associated with it. Each payment is for a particular period of time, and has an associated due date, and the date when the payment was received.	12	CO2	K3
OR				
14 (b)	Identify the relational operation explain types of relational operation with queries	12	CO2	K3
15 (a)	Explain the aggregate functions in SQL with an example.	12	CO3	K2
OR				
15 (b)	Explain in detail about SQL set operation with example queries.	12	CO3	K2