

 <p>ADAMAS UNIVERSITY PURSUE EXCELLENCE</p>	<p align="center">ADAMAS UNIVERSITY END-SEMESTER EXAMINATION :MAY 2021 (Academic Session: 2020 – 21)</p>		
Name of the Program: (Example: B. Sc./BBA/MA/B.Tech.)	B.TECH	Semester: (II/IV/ VI/ VIII/X)	VI
Paper Title :	DATABASE MANAGEMENT SYSTEM	Paper Code:	ECS43102
Maximum Marks :	40	Time duration:	3HR
Total No of questions:	8	Total No of Pages:	1
(Any other information for the student may be mentioned here)			

Answer all the Groups

Group – A

Answer all the questions of the following

$5 \times 1 = 5$

1. a) Define Primary Key constraint.
 b) What do you mean by NOT NULL constraint?
 c) Mention the name of SQL commands under Data Definition Language (DDL).
 d) Mention the name of SQL commands under Data Manipulation Language (DML).
 e) Define Non Prime Attribute.

GROUP – B

Answer *any three* of the following

$3 \times 5 = 15$

2. Explain Functional Dependency with suitable example. 5
3. Define Entity Relationship Diagram (ERD). Discuss various types of entites available in Entity Relationship Diagram. $2 + 3 = 5$
4. Write short note on ACID Property. 5
5. Explain Generalization, Specialization and Aggregation with suitable examples. 5

GROUP – C

Answer *any two* of the following

$2 \times 10 = 20$

6. Define Normalization. Explain the features of 1NF, 2NF and 3NF with suitable examples. $3 + 7 = 10$
7. Discuss the various types of Views in DBMS. Explain Data Abstraction with suitable example. $5 + 5 = 10$
8. Explain Confidentiality, Integrity and Availability of Database Security with suitable examples. 10
