

GYANMANJARI INNOVATIVE UNIVERSITY
GYANMANJARI DIPLOMA ENGINEERING COLLEGE
Diploma Engineering —Mid Semester Examination (MSE)-S 2024

Enrollment No.:_____

Subject Code: DETCE13204

Subject Name: Database Management System

Time: 11:00 AM to 1:00 PM

Date:11/09/2025

Semester: 3rd

Total Marks: 60

Instructions:

1. Question No. 1 is compulsory.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		Marks
Q.1	(a) Give difference between Data and Information. Data અને Information વચ્ચેનો તફાવત જણાવો.	05
	(b) Define the following the terms. (a) Data Items b) Records વ્યાખ્યા લખો. (a) Data Items b) Records	05
	(c) Explain Components of Data Dictionary. Data Dictionary ની Components વિગતવારમાં સમજાવો.	10
Q.2	(a) Describe DBA with its responsibilities. DBA એટલે શું તે સમજાવો અને તેને responsibilities.	05
	(b) Difference between Open Source Database and Commercial Database. Open Source Database and Commercial Database વચ્ચેના તફાવત આપો.	05
	OR	
	(b) Explain Aggregate function in detail. Aggregate function વિગતવારથી સમજાવો.	05
	(c) Explain Entity Relationship Data Model and attributes of ER Data Model. Entity Relationship Data Model and attributes of ER Data Model વિગતવારથી સમજાવો.	10
	OR	
	(c) Explain Primary Key Constraints and check Constraints with syntax and example. Primary Key Constraints and check Constraints સમજાવો syntax and examples સાથે.	10
Q.3	(a) Explain DDL Commands with syntax and examples. DDL Commands સમજાવો syntax and examples સાથે.	05

- (b) Explain Group by and order by clauses. **05**
Group by and order by clauses સમજવો.
- (c) Explain SQL Joins. **10**
SQL Joins સમજવો.

OR

- Q.3** (a) Difference between Authentication and Authorization. **05**
તફાવત જણાવો Authentication and Authorization.
- (b) Explain Numeric function in detail. **05**
Numeric function વિગતવારથી સમજવો.
- (c) Explain Normalization in detail. **10**
Normalization વિગતવારથી સમજવો.