

**GYANMANJARI INNOVATIVE UNIVERSITY**  
**GYANMANJARI DIPLOMA ENGINEERING COLLEGE**  
**Diploma Engineering –Mid Semester Examination (MSE)- 2026**

Enrollment No.: \_\_\_\_\_

Subject Code: DETCE14212

Subject Name: Advance Database Management System

Time: 10:30 AM to 12:30 PM

Date: 30/03/2026

Semester: 4th

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 a difference between User Role and Privileges. User Role અને Privileges વચ્ચે નો તફાવત જણાવો.	05
(b) Explain DCL with its all commands. DCL ને તેના બધાજ commands સાથે વિગતવાર જણાવો.	05
(c) What is Normalization Technique? Explain in details. Normalization Technique એટલે છું? વિગતવાર જણાવો.	10
Q.2 (a) Explain what is database schema? How to design and implement it. database schema એટલે છું? તેને કઈરીતે design and implement કરવું તે જણાવો.	05
(b) What is distributed database? Explain architecture of distributed database. distributed database એટલે છું? architecture of distributed જણાવો.	05
OR	
(b) Explain E-R Model in detail. E-R Model વિગતવાર જણાવો.	05
(c) Explain concept of PL/SQL with Cursor and its types. PL/SQL concept સાથે Cursor અને એની Types સમજાવો.	10
OR	
(c) Write a various database clause with appropriate example. database clause ને ઉદાહરણ સાથે સમજાવો.	10
Q.3 (a) Create table Employee and Salary, insert 5 records using DML command also apply referential constraints. Employee and Salary table બનાવો. તેમાં 5 records ઉમેરો સાથે referential constraints પણ ઉમેરો.	05
(b) Explain what is Data Masking with its types. Data Masking એટલે છું? અને તેના પ્રકારો જણાવો.	05

- (c) What is database triggers? Explain with syntax and example.  
database triggers એટલે છું? તેને syntax and  
example સાથે સમજાવો.

10

OR

- Q.3 (a) Explain various database constraints.  
database constraints જણાવો.

05

- (b) Explain Encryption Techniques with details.  
Encryption Techniques વિગતવાર જણાવો.

05

- (c) Explain Outer join with its types.  
Outer join ને તેના પ્રકારો સાથે સમજાવો

10

\*\*\*\* Best of Luck \*\*\*\*