

Dr. Babasaheb Ambedkar Technological University, Lonere.

B. Tech Computer Engineering – Mid-Semester Winter Examination October- 2022

Subject: Database Management System

Semester- V

Time: 1 Hour Max Marks: 20

Date: 20/10/2022

Instructions to the students:

1. Question No 1 and 5 compulsory and carry 3 marks.
Question No 2 and 3 solves any 2 questions and carries 3 marks each.
Question No 4 solves 1 question and carries 2 marks each.
 2. Illustrate your answer with neat sketches, diagrams etc. Wherever necessary.
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- Q 1. Draw and Explain DBMS Architecture in detail. [3m]
- Q 2. Attempt any 2 Questions from below. [2q * 3m]
- i) What is DBMS? Write a short note on the DBMS Application.
 - ii) Explain the advantages and disadvantages of the file processing system.
 - iii) What are the data models? explain any two data models.
- Q 3. Attempt any 2 Questions from below. [2 q * 3m]
- i) Explain the database systems that implement integrity constraints in detail.
 - ii) What are the categories of database users? Explain in detail.
 - iii) What is an E-R Diagram? Explain different types of symbols.
- Q 4. Attempt any 1 Question from below. [1 q * 2 m]
- i) Explain with example Types of Attributes
 - ii) Write a short note on a weak entity set.
- Q 5. What are the basic relational algebra operations? [3m]