

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2023
SEMESTER - II

Sub : Advanced DBMS (MCA- 202-22)

Date :20/12/2023

Total Marks : 60

Time: 10.00 am To 12. 30 pm

Instruction:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labelled diagram wherever necessary.

Q. 1. Answer the following in 2 - 3 lines. (Any 5) (10)

1. List common data integrity constraints.
2. Define Index and View
3. What are Subqueries ?
4. Write down difference between Primary Key and Foreign Key.
5. What is XML Document?
6. What is Big Data?
7. Compare SQL and NoSQL.

Q. 2. Answer the following in short. (Any 4) (20)

1. Describe the concept of a database transaction and its properties
2. What is NoSQL? Explain types of NoSQL
3. Explain the use of Index in relational database with syntax and example.
4. Define function in SQL? Write example to create a user-defined function
5. Write a note on deadlock detection and recovery.
6. Difference between Structured, Semi structured and unstructured database

Q. 3. Answer the following in detail. (Any 3) (30)

1. Explain CURSOR in SQL? Write syntax to declare a cursor explain with example
2. What is an Object Oriented Database (OODB)? How does OODB differ from relational database?
3. Explain normalization and its different forms with example?
4. Explain CREATE, INSERT, UPDATE and DELETE statement with the help of example.
5. Explain Conditional statement / Branching in PL/SQL? Explain with example.
