

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2023
SEMESTER - I

Sub : Advanced Database Management System (MSC- 101-22)

Date : 28/12/2023

Total Marks : 30

Time: 10.00 am to 11.30 am

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 short. (Any 4) (20)

- 1 Write a note on CAP theorem?
- 2 Write a note on Deadlock detection and prevention?
- 3 Explain ACID properties of transaction.
- 4 What are triggers in database? What are benefits and uses of triggers?
- 5 Write a note on JOINS and its types.
- 6 Explain Looping construct in PL/SQL with examples

Q. 2. Answer the following in detail. (Any 1) (10)

1. Explain normalization and its types in detail with example
2. Write a note on DML, DDL and DCL statement with proper example using constraints.
