

Total No. of Questions:[03]

Total No. of Printed Pages: [01]

PRN	
-----	--

PAPER CODE	V222-233(ESE)
------------	---------------

MAY 2022 - ENDSEM EXAM
S.Y. B. TECH.(COMPUTER ENGINEERING) (SEMESTER - II)
COURSE NAME: DATABASE MANAGEMENT SYSTEM
COURSE CODE: CSUA22208
(PATTERN 2020)

Time: [1 Hr]

[Max. Marks: 30]

Instructions to candidates:

- 1) Figures to the right indicate full marks.
- 2) 'a' part of every question is compulsory
- 3) Use of scientific calculator is allowed
- 4) Use suitable data wherever required

Q.1 a) Illustrate ACID properties of transaction. [4]

b) Describe Timestamp ordering protocol with suitable example. [6]

OR

b) Discuss Deferred database modification technique for database recovery. [6]

Q.2 a) Explain the factors limiting speed up and scale up with respect to parallel database architecture? [4]

b) Illustrate Distributed data storage techniques with example. [6]

OR

b) Illustrate Parallel database architecture with diagram. [6]

Q.3 a) Discuss four main types of NOSQL databases. [4]

b) Illustrate Hadoop architecture. [6]

OR

b) Illustrate CAP theorem with example. [6]