

THIRD SEMESTER B.VOC.(Information Technology) DEGREE EXAMINATION
DECEMBER 2019
(CBCS) (Semester Scheme)

PAPER BVIT 304: DATABASE MANAGEMENT SYSTEM

Time: 3 Hours

Max. Marks: 70

Instruction : Answer ALL Sections

SECTION – A

- I. **Answer any ten questions of the following**
Each question carries two marks

10 x 2 = 20

- 1) What is Data Model.
- 2) What is Mapping in DBSMS architecture.
- 3) What is Relationship Type? Give one example.
- 4) What is Composite attribute.
- 5) What is cursor.
- 6) What is transitive dependency.
- 7) Write the syntax of update command with example.
- 8) What is data inconsistency.
- 9) What is PL/SQL.
- 10) What is exception.
- 11) What is two phase locking
- 12) What is the purpose of Rollback statement.

SECTION - B

- II **Answer any five questions.** Each question carries ten marks

5 x 10 = 50

- 13) Explain the database system environment and its components with a diagram 10
14. a) Explain cardinality Ration constraint of relationship 5
b) Explain external hashing 5
- 15.a) What is normalization? Explain third normal form with example 5
b) What is SQL? Explain DDL command with example. 5
- 16.a) Write a PL/SQL program to find the factorial of a number. 5
b) What is package? List the advantages of Package. 5

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- 17.a) Explain Transaction states with a neat diagram. 5
b) Explain commit point of transaction. 5
- 18.a) Explain incorrect summary problem that occurs when transactional run concurrently. 5
b) What the lock states OF Binary lock and shared / Exclusive locks. 5
- 19 Define the following
- a) Data. 2
 - b) SQL. 2
 - c) Schema. 2
 - d) Abstraction. 2
 - e) Entity. 2
20. Consider a database with relations 10
STUDENT (Name, Number, Class, Course number)
COURSE (course name, course number, Hours, Dept)
- Write a SQL statement for the following
- a) Change class of student "Smith" to 2.
 - b) Remove the record for the student whose name is "Smith".
 - c) Add a new course
('Knowledge Engineering', 'CS-4390', 4, 'CS')
 - d) Display all the student records who belongs to 'CS' department.

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