Roll No. ....

216–N

B. A./B. Com./B. Sc. (Part II) EXAMINATION, 2019

(New Course)

(Vocational Course)

COMPUTER APPLICATION

Paper Second

(DBMS and RDBMS)

Time : Three Hours][Maximum Marks : $\begin{cases} B.A. & :25 \\ B.Com./B.Sc.:50 \end{cases}$

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

Section—A

(Short Answer Type Questions)

Note : For B. A. candidates attempt any *three* questions from this Section. Each question carries 3 marks. For B. Com./B. Sc. candidates attempt all questions from this Section. Each question carries 3 marks.

1. (A) Write steps of knowledge discovery process.

   (B) What is OLAP ? Explain.

(A-25) P. T. O.

(C) Define support and confidence in Association rule w. r. t. data mining.

(D) Write the advantages of a DBMS.

(E) Define the following terms :

   (i) Primary Key

   (ii) Candidate Key

   (iii) Foreign Key

(F) What is hashing ? How is it useful in DBMS ?

Section—B

(Long Answer Type Questions)

Note : Attempt any *two* questions from this Section. For B. A. candidates each question carries 4 marks. For B. Com./B. Sc. candidates each question carries 8 marks.

2. What are the various symbols used in E-R diagram ? Explain with the help of an example how a weak entity set is represented in an E-R diagram.

3. Define a table in SQL called CLIENT which is used to store information about the clients. Define CLIENT_NO as primary key whose first letter must start with 'C'. Also ensure that column NAME should not allow NULL values :

Column Name	Data Type	Size
CLIENT_NO	Varchar 2	6
NAME	Varchar 2	20
ADDRESS	Varchar 2	40
CITY	Varchar 2	15
PINCODE	Number	6

(A-25)

4. Write any *three* DDL commands and *three* DML commands use example to explain use of each.

5. Consider the following relational schemas :

Person (Pid, Pname, Paddress)

Vehicle (Vid, Vmodel, Vcolor)

Owns (Pid, Vid)

Write RA expressions for the following queries :

(a) Find names of Person who do not own any vehicle.

(b) Find names of Persons who own 'red' colour vehicle.

Section—C

(Long Answer Type Questions)

Note : Attempt any two questions from this Section. For B. A. candidates each question carries 4 marks. For B. Com./B. Sc. candidates each question carrie. 8 marks.

6. Why do we need to normalize a database ? Explain.

7. What are the various types of file organizations possible in a DBMS ?

8. Define the following terms :

(i) Clustering

(ii) Classification

(iii) Association

9. How do we ensure data security in a DBMS ? Explain.

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