

216-N

**B. A./B. Com./B. Sc. (Part II)  
EXAMINATION, 2018**

(New Course)

(Vocational Course)

COMPUTER APPLICATION

Paper Second

(DBMS and RDBMS)

Time : Three Hours ] [ Maximum Marks : { B. A. : 25  
B. Com./B. Sc. : 50

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. attempt any *three* questions and each question carries 3 marks. For B. Com./B. Sc. attempt all questions. Each question carries 3 marks.

1. (A) What are the advantages of data mining ?
- (B) Define the terms schema and instance.
- (C) Why is Normalization of a relation required ?

- (D) Write a SQL DDL statement to create a student table. Choose suitable attributes of your choice.
- (E) Define the term classification w. r. t. data mining.
- (F) Write any *three* characteristics of a data warehouse. http://www.csjmuonline.com

**Section—B**

(Long Answer Type Questions)

Note : Attempt any *two* questions. For B. A. each question carries 4 marks and for B. Com./B. Sc. each question carries 8 marks.

2. Write in short about roll up and drill down operations w. r. t. multidimensional model.
3. Give the definition of an association rule. What is the difference between support and confidence to a rule ?
4. What is a Index ? How many different types of Index can be created ? Write about each.
5. Draw an ER diagram for a vehicle panning system. Identify entities and relationship between them.

**Section—C**

(Long Answer Type Questions)

Note : Attempt any *two* questions. For B. A. each question carries 4 marks and for B. Com./B. Sc. each question carries 8 marks.

6. Explain the difference between external, internal and conceptual schemas. How are these different schema layers related to the concept of logical and physical data independence ?

[ 3 ]

7. Consider the relation R (A, B, C, D, E) with FD  
{A → B, C → D, D → E} in which normal form is R.  
Show all steps.

8. Consider the relations given below :

- ✓ driver (driver\_id, driver\_name, driver\_experience),
- vehicle (vehicle\_id, vehicle\_type),
- ✓ booking (driver\_id, vehicle\_id, booking\_date).

Write SQL queries for the following :

- ✓ (i) Write SQL DDL statement for Booking relation.
- (ii) Find driver names who have booked Sedan type vehicle.
- (iii) Find total number of bookings done by driver\_id 5.
- (iv) Find names of driver whose name starts with 'S'. *15%*

9. Consider the relation given below :

SPC (Suppliernumber, Suppliername, Suppliercity, Statuscity, Partnumber, Partname, Partprice, Quantitypart).

FD (Suppliernumber → Suppliername, Suppliercity  
Suppliercity → Statuscity, Partnumber → Partname,  
Partprice (Suppliernumber, Partnumber) → Quantity  
part)

Write down the anomalies you find in the above relation.

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