Total No. of Pages : 04 Roll No. .....

BCA-09/DIT-05/BA-IT-06
Database Management System
Bachelor of Computer Application (BCA-11/16/17)
Diploma in Information Technology (DIT-17)
3rd/2nd Semester
Examination, 2019

Time : **3** *Hours* *[Maximum Marks : 80*

Note : This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section–A

(Long Answer Type Questions)

Note : Section A contains Five (05) long-answer-type questions of Fifteen (15) marks each. Learners are required to answer any three (03) questions only. **(3×15=45)**

1. What is Database Management System (DBMS)? Explain the architecture and

modeling techniques of Database Management System (DBMS)?

2. What are the views? How views are created? What is the difference between views and tables? Explain by giving example.

3. The bank in a city offer three types of accounts : saving, current and fixed deposit. It operates no. of branches and a client of Bank can have any number of accounts. Identify the entities and their attributes. Draw the E-R diagram.

4. What do you mean by SQL? Is it a procedural or non-procedural language? What is the significance of delimiter in SQL? Also explain SQL control structure.

5. What do you understand by Functional Dependency? What do you understand from canonical cover of a functional dependency set?

Section–B

(Short-Answer-Type Questions)

Note : Section 'B' contains Eight (08) short-answer-type questions of Seven (07) marks each. Learners are required to answer any Five (05) questions only. **(5×7=35)**

1. How ER Diagrams are useful in designing a logical database? Give a suitable example.
2. What is the importance of CODD's rule in relational database management?
3. What is referential integrity?
4. How many types of database users? Also explain their roles.
5. What do you mean by database view? Define database view architecture.
6. Write syntax to :
   (a) Create a table
   (b) Inserting data in the table
   (c) Fetching data from table (with and without where clause).
7. Explain relation model and its advantages over other data models.
8. What are the different types of Data Recovery?