(12/24)

60502

B.C.A. (SM-Four Year Degree Programme) EXAMINATION

(For Batch 2024 & Onwards)

(First Semester)

DATABASE MANAGEMENT SYSTEM

BCA/SM/1/DSC/102

Time : Two Hours　　　　　　*Maximum Marks :* 35

Note : Attempt *Three* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

(Compulsory Question)

1. Short answer type questions :　　　$7 \times 1 = 7$

    (a) Define Database Schema.

    (b) What is entity and entity type ?

(c) What is a foreign key ?

(d) What is domain constraint ?

(e) What do you mean by trivial dependency ?

(f) What is grant command ?

(g) What is a prime attribute ?

Unit I

2. (a) What is a DBMS ? Explain the difference between file system and DBMS in brief. 7

   (b) What do you mean by data independence ? Explain its types in detail. 7

3. (a) Explain the architecture of DBMS with a neat and clean diagram. 10

   (b) What is a network data model ? Explain in brief. 4

Unit II

4. (a) What do you mean by decomposition ? Explain desirable properties of decomposition in detail. 7

   (b) Explain various integrity constraints over relation schema in brief. 7

5. (a) What do you mean by normalization ? Explain various normal forms with suitable example. 10

   (b) Explain some DDL commands with suitable examples. 4