

S.B. Roll No.....

**RELATIONAL DATABASE MANAGEMENT SYSTEM**

**3<sup>rd</sup> Exam/COMP/IT/CSc/0626/May'17**

**Duration: 3Hrs**

**M. Marks=75**

**SECTION A**

**Q1 Do as directed:**

**1.5x10=15**

- i. Full form of BCNF is \_\_\_\_\_.
- ii. The set of all possible values an attribute can have is called its \_\_\_\_\_.
- iii. Draw the symbol for entity and derived attribute.
- iv. An \_\_\_\_\_ diagram represents the overall logical structure of a database in a graphical form.
- v. Define cardinality?
- vi. \_\_\_\_\_ command is used to take back privileges from the user.
- vii. Name any one DBMS.
- viii. Write the syntax of UPDATE command with example.
- ix. SQL is a non-procedural language. (T/F)
- x. Commit means save the work done. (T/F)

**SECTION B**

**Q2 Attempt any FIVE questions.**

**6x5=30**

- i. What is data independence? Differentiate between logical and physical data independence?
- ii. Explain various types of relationships among entities?
- iii. What are various integrity constraints? Explain.
- iv. Define transaction? List the various properties of a transaction?
- v. Define the following terms
  - a) Primary key
  - b) Entity
  - c) Schema
- vi. Briefly describe the different kinds of users of DBMS?

**SECTION C**

**Q3 Attempt any THREE questions.**

**10x3=30**

- i. Discuss the various advantages and disadvantages of DBMS.
- ii. What is normalization? Explain the 1<sup>st</sup> and 2<sup>nd</sup> normal forms with example?
- iii. Explain the architecture of DBMS.
- iv. Explain the various data types used in SQL?