1129
## M.Sc. (Bio-Informatics) First Semester
### MBIN-8006: Introduction to Database System

**Time allowed: 3 Hours**                                       **Max. Marks: 60**

*NOTE:* *Attempt* <u>*five*</u> *questions in all, including Question No. I which is compulsory and selecting atleast one question from each Unit.*

x-x-x

I. Attempt the following:-

     a) Define schema.

     b) List major events in VB.

     c) Write SL query for destroying table.

     d) List major elements of forms in VB.

     e) Ever foreign key is a primary key (True / False)

     f) Degree of a table is number of attributes in it (True / False)

     g) Command is used to update the contents of a table.

     h) Hierarchical model is a limited form of model.              (8x1½)

## UNIT – I

II. a) Explain features, merits and limitations of relational data model.

     b) Describe the architecture of DBMS specifying functions of its major components.             (2x6)

III. a) Prepare ER model of University System with minimum three entities and five attributes per entity.

     b) What is the significance of data independence in database approach? Explain various types of data independence with examples.       (2x6)

## UNIT – II

IV. a) Describe the client server technology exploited in SQL with suitable example.

     b) Create table student with attributes RNo., Name, Class, Marks, Mobile Number and Date of Birth. Use appropriate constraints while creating table and write command to insert values in the attributes of the table.      (2x6)

V. Write a note on:-
     a) joins
     b) nested queries
     c) grant and revoke                                      (3x4)

## UNIT – III

VI.  a) Discuss major features of visual basic.

b) Explain the structure of PL/SQL block with its processing.  (2x6)

VII.  Write note on:-

a) cursors

b) triggers

c) error handling in PL/SQL  (3x2)

x-x-x