International Institute of Health Management Research
Term End Examination
Sub: HIT705 Managing Database

Max. Mark: 70 **Max Time: 03:00 Hrs**

Que 1: Attempt all Questions **10*2 M**

1. A relational database consists of a collection of
   a) Tables
   b) Fields
   c) Records
   d) Keys

2. The term _____ is used to refer to a row.
   a) Attribute
   b) Tuple
   c) Field
   d) Instance

3. Course(course_id, sec_id, semester)
   Here the course_id, sec_id and semester are _____ and course is a _____
   a) Relations, Attribute
   b) Attributes, Relation
   c) Tuple, Relation
   d) Tuple, Attributes

4. DBMS is a collection of …….. that enables user to create and maintain a database.
   a) Keys
   b) Translators
   c) Program
   d) Language Activity

5. In an ER model, ……. is described in the database by storing its data.
   a) Entity
   b) Attribute
   c) Relationship
   d) Notation

6. Create table employee (name varchar ,id integer) What type of statement is this ?
   a) DML
   b) DDL
   c) View
   d) Integrity constraint

7. ……. keyword is used to find the number of values in a column.
   a) total
   b) count
   c) add
   d) sum

8. Key to represent relationship between tables is called
   a) primary key
   b) secondary key
   c)foreign key
   d)none of the above

9. Which command is used to add a column to an existing table?
   a) Create
   b) Update
   c) Alter
   d) None of these

10 DML is provided for
   a) Description of logical structure of database.
   b) Addition of new structures in the database system.
   c) Manipulation & processing of database.
   d) Definition of physical structure of database system.

Que. 3: Solve Any Five **(5* 10) M**

1. Define Normalization. Explain 2nd and 3rd normal form with Example
2. Draw an Entity Relation diagram for the Hospital Management System. Consider the different types of Patients with respect to Disease and In Patient and Out-Patient Department in the design. Consider the availability of all well qualified Doctors. Consider various types of tests and operations to be conducted.
3. Write SQL statements (Query) for following tables:
   T1(rollno, stuname, age, city, branchcode)
   T2(branchcode, branchname)
   1. Retrieve students details whose branchcode is 5.
   2 Add new branch in T2 table.
   3. Display rollno, stuname and age of students whose city is Delhi
   4. Change age of student to 20 whose rollno is 1.
   5. Delete student details whose age is 18.

4. Define DBMS and list out purpose of DBMS. Explain different database users
5. Explain following terms with suitable example. (1) Primary Key (2) Candidate Key (3) Foreign Key
6. Write query for the following:
   (1) To Update a table.
   (2) To eliminate duplicate rows.
   (3) To add a new column in the table
   (4) To sort data in a table
   (5) Select max, min, average Value
7. Explain Outer Joins , Inner Join and Self join operations with example.
8. Draw and explain three level architecture of DBMS. Explain Different Data Model