

KSR HI-TECH CBSE SR.SEC SCHOOL

CLASS : XII
SUBJECT :INFORMATICS PRACTICES

TIME :1hour
MARKS :30

I. Answer in detail: **1 x 5 =5**

1. List out the steps involved in connecting database with python and explain.

II. Answer the following: **6 x ½ = 3**

1. When should we place the %s or {} in quotes.
2. Write the situations where commit() is must while dealing with python-MySQL connectivity programs.
3. Name 2 packages used for creating a Python database connectivity application.
4. Which function/method do you use for establishing connection to database?
5. Which function/method do you use for executing an SQL query?
6. Which method do you use to fetch records from the result set?

III. Answer the following: **6 x 1 = 6**

Define:

1. Connection Object
2. Database cursor
3. Result set
4. How is database connectivity useful?
5. What will the following code do?
mark=100
roll=101
tup=(100,101)
q="update student set mark=%s where roll=%s"
cursor.execute(q,tup)
6. What are named arguments in format().Give example.

IV. Write complete Program for the following: **8 x 2=16**

1. Write a suitable program to show the use of fetchall(), fetchmany(), fetchone() and rowcount.
 2. Write python code to insert a row into the table **Student(roll, name, marks)** using old style of string templates.
 3. Write python code to insert a row into the table **Student(roll, name, marks)** using new style of string templates.
 4. Design a Python application that fetches all the records from **Pet** table of **Shop** database.
 5. Design a Python application that fetches only those records from **Event** table where **type** is **kennel** of **Programme** database.
 6. Design a Python application to obtain search criteria from user and then delete those records based on that from **Empl** table of **Office** database.
 7. Write Python-MySQL connectivity code to connect to a MySQL database "**Company**" and to change all the records from the table "**Employee**" where the **designation** is "**Asst-manager**" to "**Manager**".
 8. Write code to establish connection with MySQL database using MySQLdb.
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