1st Unit Test

Subject : Computer Science(083)

Class-XII

Full Marks : 50 **Time: 2 Hours**

SECTION - I

ATTEMPT ANY 11 QUESTIONS FROM QUESTIONS 1 TO 13 1X 11=11

1. Identify DDL statements from the following

(a) Insert Into (b) Alter table (c) update (d) select

2. How is mySQL related to SQL?

3.Which of the following is an example of text function

(a) avg() (b) substring() (c) abs() (d) sum()

4. By default order by clause arrange data in ____ order.

(a) Descending (b) ascending (c) both ascending and descending (d) none of these

5, Which of the following are Keywords in Python ? (i) assert (ii) false (iii) range (iv) with

6. Which keyword is used to select rows containing column that match a wildcard pattern?

7. The _____ clause combines all those records that have identical value in a particular fields or a group of fields.

8.N ame the operator used to test for non-empty values in mysql

9. _____ keyword is used to define function.

10. What is the length of the tuple shown below? T = ((((‘a’, 1), ‘b’, ‘c’), ‘d’, 2), ‘e’, 3)

11. Find the odd one in the listed operators (a) *= (b) >= (c) **= (d) //=

12. Why list can’t be used as key in dictionary

13. A ..... is a text that is not executed. (i) Statement (ii) Query (iii) Comment (iv) Clause

SECTION -II

CASE STUDY BASED QUESTIONS . ATTEMPT ANY FOUR SUB PARTS FROM EACH QUESTION. EACH SUB QUESTION CARRIES 1 MARK 1X4= 4

14. Write a function that :

(a) Asks the user to input a diameter of a sphere (Centimeters/inches)

(b) Sets a variable radius as one half of the diameter.

(c) Calculate the volume of the sphere

(d) return the result

SECTION III (2 MARKS QUESTIONS) ATTEMPT ANY 8 2 x 8 =16

15. Rewrite the following code after removing syntax error: 2

```
Num=input(“Enter number”)
for i in range (1, Num)
  if Num%i = 0 :
    print Num*2
  else:
    print(Num*3)
```

16. What are the difference between parameters and arguments?

OR

What are the keyword argument ? Explain with example

17.Can a function multiple values? Justify.

18. Write a function to find the maximum of three numbers.

19.Give output

```
num=1
def myfunc() :
 num=10
  return num
print(num)
print(myfunc())
print(num)
```

20.Whta do you mean by default argument? Give example.

21. how having clause is different from where.

22. Define Candidate key with example.

23. How single row function differ from multi row functions

24. Differentiate between drop and delete

SECTION IV **3 MARKS QUESTIONS**

25. Find and write the output of the following python code: 3

```
def Alter(x,y=20):
        x=x*y
        y=x%y
        print (x,'*',y)
       return (x)
a,b=200,30
a=Alter(a,b)
print (a,'$',b)
b=Alter(b)
print (a,'$', b)
a=Alter(a)
print (a,'$',b)
```

26. Consider the table **stock** given below 3

Acc_No	Acc_Name	Amount	Loantype	Interest
HD101	Sanjeev	55000	Auto	7.65
HD102	Abhishek	3000000	Home	7.1
HD103	Shagun	120000	Personal	9.85
HD105	Gunjan	300000	Auto	6.90
HD106	Jyoti	1000000	Business	8.50
HD107	Aarush	1500000	Home	9.10
HD108	Lalit	20000	Auto	6.66
HD109	Smriti	250000	Auto	11.09

Write SQL commands to:

a. Display the average amount of each Loan Type

b. Display details in the increasing order of the Interest

c. Display the total amount from each loan type with interest greater than 9

27.Give output 3

```
a,b=10,5
def  myfunct(a):
   y,a=a,2
   print("y=",y, "a=",a)
  print("a+y=",a+y)
  return a+y
print("y=",y, "a=",a)
print(myfunct(5))
print("b=",b," a=",a)
```

SECTION –V

28. . Consider the following Employee Relation, Write SQL command for the questions given below 8+2=10

Empno	Ename	Job	Dept	Dateofjoin	Salary	Commission
2301	Sunita Sarma	Analyst	IT	12-03-2011	28000	350
3139	Ashok singhal	Salesman	Marketing	23-09-2009	35000	300
2389	Rohit Rana	Manager	HRD	20-02-2005	52700	500
3192	Jyoti Lamba	Manager	Finance	30-07-2007	29000	250
4127	Manoj Kaushik	Clerk	Pwd	17-1-2009	19600	1400
5246	Tushar Tiwari	Salesman	Pollution	21-06-2008	13900	1200
6213	Binod Goel	Salesman	Health	31-1-2005	24000	1000
1242	Sidhir Rawat	President	HRD	07-12-2005	31000	900
1242	Chetan Gupta	Manager	IT	19-05-2006	24500	850

(a) List the names of employee whose salary is more than 20000 sorted by Ename

(b) Display a report listing name, department, job and annual salary (salary*12) for all employees.

(c) To display the number of employee who are either in IT department and HRD.

(d) To insert a new row with the following data into employee table

(1342,'Rupak Chetri', 'Analyst','IT','26-12-2010',17500,0)

(e) To display the different job from the above table.

(f) To list the name of employee whose dateofjoin after '12-12-2009'

(g) To display Ename, job and dept whose salary 10000 to 25000

(h) To display the Ename and salary whose job is manager.

(I) Give output for the following

(i) Select Sum(Salary) from Employee where job='Clerk'

(ii) Select Ename, job from Employee where dept='IT'

(iii)Select avg(Salary) from Employee where job='Salesman'

(iv) Select count(distinct Salary) from Employee;

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