A

INDIAN SCHOOL MUSCAT
SECOND PERIODIC ASSESSMENT

COMPUTER SCIENCE

CLASS: XI   Sub. Code: 083   Time Allotted: 50mts.

19.01.2020   Max. Marks: 20

GENERAL INSTRUCTIONS:

- *All questions are compulsory.*
- *Programming Language : Python.*

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1. Identify and correct the error of the following code :   1
   >>d={[5,3]:"exam"}

2. Give the output of the following program code: 2
   X={"p":[6,7,8], 9: (4,5,6)}
   print(X.keys())
   print(X.values())

3. Give the output of the following program: 2
   D1={1:10,2:30,3:25,4:14}
   D2={2:17,3:19,5:30}
   D1.update(D2)
   print (D1)

4. What is the concept of insertionsort?   1

5. Write the python code to sort a list in descending order using insertionsort.   2

6. Write the first 4 passes in sorting the below given list of numbers in ascending order   2
   using bubblesort.
   66,23,5,65,22,77,19,48.

7. Consider the following table :
   Table: Campus

CampusID	Campusname	Street	City	Studentstrength
111	R.V College	M.G.Road	Bangalore	30000
102	S.D College	J.N.Street	Calcutta	24000
106	A.B. College	Tagore Road	Chennai	12000
113	G.N. College	Brigade Road	Bangalore	20000

Using SQL statement in MySQL, write SQL query to
Create the above table using suitable data types, make CampusID as Primary key.   2

8. Write the command to insert the records (Write the command only for the first   1
   record) in the above table.

9. Write the command to Change the Studentstrength of 'A.B. College 'as 14500 in the   1
   above table.

10. Write the command to Display all records whose Cityname starts with 'C' in the   1
    above table.

11. Write the command to Insert a new column called Principal with data type Character   1
    of 30 in the above table.

12. Write the output based on the above table: 2
    i)   Select sum(Studentstrength),Max(Studentstrength) from Campus where
         City="Bangalore";
    ii) Select Distinct City from Campus;

13. Sana has executed the following SQL query and it showed error. Rectify the error and   2
    write the correct query:
    Select * order by Campusname from Campus Desc;

End of the Question Paper

Roll Number		

B

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GENERAL INSTRUCTIONS:

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- *Programming Language : Python.*

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1. **Consider the following table :**   2
   Table: PAINTING

ID	A_NAME	TITLE	PRICE	TYPE
111	KAVITA SWAMY	MAZE	200000	ABSTRACT
102	AMER HUSSAIN	MELANGE	350000	MODERN
113	SIMRA	BEAUTY	250000	NATURE
114	SINGH	GEO	150000	MODERN
115	A GHOSH	MIRAGE	560000	ABSTRACT

   Using SQL statement in MySQL, write SQL query to:

   Create the above table using suitable data types, make ID as Primary key.

2. Write the command to insert records in the above table (Write the command only for   1
   the first record).

3. Write the command to display the structure of the above table.   1

4. Write the command to display the records of the above table in descending order of   1
   TITLE.

5. Write the command to list the A_NAME and TITLE of Paintings which has the letter   1
   'A' anywhere in A_NAME.

6. Write the output based on the above table: 2
   i) Select count(*),avg(Price) from Painting where Type="MODERN";

ii) Select Count(Distinct Type) from Painting;

7. Raghav wrote the following query and it is giving an error. Write the correct query.   2
Select * where price=>200000 from painting

8. What is the difference between del() and pop() function in dictionary.   1

9. Give the output of the following program: 2
thisdict ={ "brand": "Ford","model": "Mustang","year": 1964 }
d=thisdict.items()
print (d)
print (thisdict.values())

10. Give the output of the following program: 2
D1={1:10,2:30,3:25,4:14}
D2={2:17,3:19,5:30}
D2.update(D1)
print (D2)

11. What is the concept of bubblesort?   1

12. Write the python code to sort a list in ascending order using bubblesort.   2

13. Write the first 4 passes in sorting the below given list of numbers in descending order   2
using Insertionsort.
66,23,5,65,22,77,19,48.

End of the Question Paper

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1. In which situation insertionsort is preferred over bubblesort? Why?   1

2. Write the python code to sort a list in descending order using bubblesort.   2

3. Write the first 3 passes in sorting the below given list of numbers in descending order   2
   using Insertionsort.
   66,23,5,65,22,77,19,48.

4. Identify and correct the error of the following code :   1
   >>d={[5,3]:"exam"}

5. Give the output of the following program: 2
   D1={1:10,2:30,3:25,4:14}
   D2={2:17,3:19,5:30}
   D2.update(D1)
   print (D2)

6. Give the output of the following program: 2
   Val ={ "brand": "Ford","model": "Mustang","year": 1964 }
   mylist=Val.items()
   print (mylist)
   print (Val.keys())

7. **Consider the following table :**

Table: PAINTING

ID	A_NAME	TITLE	PRICE	TYPE
111	KAVITA SWAMY	MAZE	200000	ABSTRACT
102	AMER HUSSAIN	MELANGE	350000	MODERN
113	SIMRA	BEAUTY	250000	NATURE
114	SINGH	GEO	150000	MODERN
115	A GHOSH	MIRAGE	560000	ABSTRACT

Using SQL statements in MySQL, write SQL query to
Create the above table using suitable data types, make ID as Primary key.

8. Write the command to insert the records (Write the command only for the first record) in the above table.   1

9. Write the command to delete the records whose Price is in the range 150000 – 300000(both inclusive) from the above table.   1

10 Write the command to change the data type of type as Character of size 25 in the above table.   1

11 Write the command to change the Type of the Painting with Title 'Beauty' as 'Modern' in the above table.   1

12 Write the output based on the above table: 2
     i) Select sum(price),Min(Price) from Painting where Type="ABSTRACT";
     ii) Select Distinct City from Campus;

13 Sana has executed the following SQL query based on above table and it showed error.   2
Rectify the error and write the correct query:
Select * order by Title from Painting Desc;

End of the Question Paper