

UTTARAKHAND PUBLIC SCHOOL
PRE-ANNUAL -2023-24
CLASS XI – SET-A
SUBJECT- INFORMATICS PRACTICE -065

Time- 3 Hrs

M.M -70

General Instructions:

- The paper is divided into 4 Sections- A, B,C.
- Section A, consists of Question 1 to 20 Contains 1 Marks each.
- Section B, consists of Question number 21 to 30 contains 2 Marks each
- Section C, consists of Question number 31 to 35 Contains 3 Marks each.
- Section D, consists of Question number 35 to 38 contains 5 Marks each.
- All questions compulsory.

SECTION-A(Multiple Choice Questions)

1- for i in range(0:10:2):

print(i,end="")

- (a)0 (b) 0,1,2,3,4,5,6,7,8,9,10 (c) 0,2,4,6,8 (d) 0,2,4,6,8,10

2- You have the following code segment:

String1 = "python"

String2 = "world"

print(String1 + string2) What is the output of this code?

- (a) python world (b) world (c) pythonworld (d)python

3- Suppose List1 = [32,45,78,57,-12,29]what is the output of len(List1)?

- a. 5 b. 6 c. -12 d. 0

4- Shivam wants to see the table structure in Mysql. Select an appropriate command to help him.

- a. use b. show c.desc d.select

5- Which of the following will give output as [5,14,6] if lst=[1,5,9,14,2,6]?

- a. print(lst[0::2]) b. print(lst[1::2]) c. print(lst[1:5:2]) d. print(lst[0:6:2])

6- IoT stands for_____

- a. Industry of Things b. Internet of Things
c. Intelligence of Things d. Internal Internet of Things

7- Consider a list L = [3, 4, 5, 20, 5, 25, 1, 3], what will be the output of L.reverse()?

- a. [3, 4, 5, 20, 5, 25, 1, 3] b. [1, 3, 3, 4, 5, 5, 20, 25]
c. [25, 20, 5, 5, 4, 3, 3, 1] d. [3, 1, 25, 5, 20, 5, 4, 3]

8- Which of the following is valid membership operator?

- (a) in (b) not in (c) both a and b (d) none of the above

9- Choose the correct output

a,b=10,11

c=str(b)+str(a)

print(c)

- a. 21 b. 1011 c. 1110 d. Error

10- If list=[10,20,30]

>>>list*2

(a) [10,20,30] (b) [10,20,30,10,20,30] (c) [20,40,60] (d) list

11- Which of the following will give error?

Suppose dict1={"a":1,"b":2,"c":3}

a. print(dict["c"]) b. print(dict1.get("b")) c. dict1["a"].update(5) d. None of the above.

12- What is the output of the following code snippet?

L = [-789,765,400,-1411,-5446,2]

print(min(L))

a. 2 b. -789 c.- 5446 d. 400

13- if var1= "HELLO WORLD"

>>>print(var1[-8])

(a) H (b) O (c) l (d) L

14- The ___ allows you to perform tasks related to data definition.

a. DDL b. DML c. TCL d. None of these

15- Duplication of data is termed as_____.

a- Database inconsistency b- Data Redundancy c- Data Integrity d- Data Consistency

16- Which of the following operator is Floor division?

(a) + (b) / (c) // (d) **

17- What will be the output of the following code?

x,y=3,5

x,y=y,x+2

print(x,y)

(a) 5 5 (b) 3 5 (c) 5 3 (d) 3 3

18- The rows of the relations are generally referred to as _____.

a- Degree b- Tuples c- Attributes d- Cardinality

19-Find the output of the following python program:

for x in range(1,20,3):

print(x)

(a) 1,20,3 (b) 1,4,7,10,13,16,19 (c) 13,6,9,12,15,18 (d) 20,40,60,80,100

20-Where is virtual reality used?

a- Training soldiers in combat using battlefield simulations.

b- In 3D films

c- To allow access to buildings

d- To create prototypes of cars or any other object.

SECTION-B(2 Marks each)

21- Identify the invalid identifier-

1- unit-day

2-4gh

3-for

4-#sum

22- Write the output of the following-

a- (75>2**5)

b- (25!=5*2)

23- What is the difference between primary key and foreign key explain with proper example?

24- Design a dictionary using following table information.

Deptno	Dname	Location
10	English	I floor
11	Physics	I floor
12	Chemistry	II floor
13	Biology	II floor
14	Computers	III floor

25- Write the output of the following:

- a- Type(20)
- b- Type(20.0)
- c-Type('20')
- d-Type(True)

26-Write a program to check whether a number is divisible by 7 or not

27- Describe the benefits of cloud computing.

28- Write a SQL code to create table ITEM and insert values with proper coding.

Item_no	Item_name	Qty
101	Pen	560
102	Pencil	780
104	CD	450
109	Long file	350
105	Eraser	250
103	Duster	128

29- What will be the output of the following operation?

L1=[1,2]

L2=[3,4]

a- print((L1+L2)*2)

b- L2.insert(8,2)

30- Find out the error in the following code-

```
x=int("enter value of x:")
```

```
for in range[0,11]:
```

```
    if x=y
```

```
        print x+y
```

```
    else:
```

```
        Print x-y
```

SECTION-C (3 Marks each)

31- Table : client

C_ID	ClientName	City	P_ID	Price
1	Cosmetic Shop	Delhi	FW05	40
6	Total Health	Mumbai	BS01	45
12	Live Life	Delhi	SH06	55
15	Pretty One	Delhi	FW05	120
16	Dreams	Bengaluru	TP01	95
14	Expressions	Delhi	Null	50

Write SQL statements for the query (a) to (c)

- a- To display client name and city of all Mumbai and Delhi based clients .
- b- Increase the price of all the value by 10%
- c- Delete the client whose belongs to Mumbai.

32- Explain the following along with their applications:

- a- Artificial Intelligence
- b- Machine Learning

33- Write a program to input your friend names and their phone numbers and store them in a dictionary as the key value pair. Perform the following operations on the dictionary.

- a- Display the names and phone numbers of all your friends.
- b- Delete the particular friend from the dictionary.
- c- Add a new key value pair in this dictionary and display the modified dictionary.

34- Write a program to calculate the electricity bill (accept number of unit from user) according to the following criteria.

Unit	Price
First 100 units	no charge
Next 100 units	Rs 5 per unit
After 200 units	Rs 10 per unit

(For example if input unit is 350 than total bill amount is Rs2000)

35- Write the output of the following code:

```
L1=[2,4,6,8,10]
L2=L1
L3=L1.copy()
L1[4]=12
L2[3]=14
L1.remove(2)
Print("List1",L1)
Print("List2",L2)
Print("List3",L3)
```

SECTION-D (5 Marks each)

36- Write SQL commands for (i) to (v) on the basis of relation given below: (5)

Table: BOOKS

Book_id	Book_name	Author_name	Publishers	Price	Type	qty
K0001	Let us C	Y.Kanetkar	EPB	450	Comp	15
P0001	Genuine	J.Mukhi	FIRST PUBL.	755	Fiction	24
M0001	Mastering C++	K.R.Venugopal	EPB	165	Comp	60
N0002	VC++ advance	P.Purohit	TDH	250	Comp	45
K0002	Programming with python	Sanjeev	FIRST PUBL.	350	Fiction	30

- (i) To show the books of FIRST PUBL. written by J.Mukhi.
- (ii) To display cost of all the books published by FIRST PUBL.
- (iii) Depreciate the price of all books of EPB publishers by 5%.
- (iv) To display the book name, price of the books more than 3 copies of which have been issued..
- (v) To show the details of the book with quantity more than 30.

37- Find the output of the following:

(5)

(i) `4**4`

(ii) `print('Im',16,'Years old')`

(iii) `N="Good"+"Morning"`
`print(N)`

(iv) `x,y=20,60`
`y,x,y=x,y-10,x+10`
`print(x,y)`

(v) `x=10`
`x=x+10`
`x=x-5`
`print(x)`

38- (i) `l=['p','w','r','d','a']`
`l.remove('r')`
`print(l)`
`print(l.pop())`
`del l[1]`
`print(l)`

(2)

(ii) `l=[1,2,3,4,5,6,7,8,9,10]`
`s=[l for l in l if l%2==0]`
`print(s)`

(1)

(iii) Consider code in python:
Remove last three elements from the list.

(1)

(iv) `l=[24,34,13,67,54,89,43]`
`print(max(l))`

(1)