

UTTARAKHAND PUBLIC SCHOOL
TERM-1 -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 [100,200,300]:

print(i,end="")

- (a)100 (b) 100,200,300 (c) 100 200 300 (d) none of the above

2- You have the following code segment:

String1 = "my"

String2 = "work"

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

- (a) my work (b) work (c) mywork (d) my

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- Which of the following is valid membership operator?

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

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- Which escape sequence represents newline character?

- (a) \n (b) \t (c) \T (d) \e

7- Identify the valid declaration of L=[1,2,3,4,5]

- (a) list (b) dictionary (c) array (d) tuple

8- % is known as the modulus operator and if a =13 and b =2 then a % b evaluate to

- (a) False , 0 b) True , 6 c) True , None d) None of These

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- How many operands are there in the following arithmetic expression?

$23 * 4 + 56 - 15 / 3$

- a. 4 b. 3 c. 5 d. 8

12- for i in range(10,20,4):

print(i)

- (a) 10 (b) 10 (c) 10 14 18 (d) none of the above

13- if var1= "HELLO WORLD"

>>>print(var1[-8])

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

14- Which among the following is an example for iteration statement in python

- a. if b. if elif c. for d. pass

15- Consider a list list1 = ['Red','Green','Blue']

print('Green'not in list1)

results of it

- a. Ture b. False c. true d. false

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=2,6

x,y=y,x+2

print(x,y)

- (a) 6 6 (b) 4 4 (c) 4 6 (d) 6 4

18- Who is known as 'Father of Modern Computers'?

- (a) Blaise Pascal (b) Charles Babbage (c) Von Leibniz (d) John Neuman

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-Consider the following list:

A=[1,2]

B=[1,2]

print(A==B)

- (a) True (b) False (c) Error (d) No output

SECTION-B(2 Marks each)

21- What do you mean by comment in python

22- Write the output of the following-

a- $(75 > 2^{**}5)$

b- $(25! = 5 * 2)$

23- What do you mean by data types? Write names of data types

24- Write the output of the following:

```
>>> str = "Informatics"  
>>>str[3] = 'e'  
>>> print(str)
```

25- Write the output of the following:

- a- Type(20)
- b- Type(20.0)

26- Identify the variable name, variable type, operator and value used in the following statement

X=9

27- Write the output of the following-

```
>>> x , y = 3, 5  
>>>x, y = y, x + 6  
>>> print(x,y)
```

28- Write the output of the following if a=9

```
if (a > 5 and a <= 10):  
    print("Hello")  
else:  
    print("Bye")
```

29- Write the output of the following-

```
x,y=2,4  
if(x+y== 10):  
    print("Thankyou")  
else:  
    print("Bye")
```

30- Find out the error in the following code-

- a- a=30
 b=a+b
 print(a And b)
- b- temperature=90
 Print temperature

SECTION-C (3 Marks each)

31-(i)- Write a program to enter three colour in a list.
(ii)- What is List? How many types of it?

32- Write a program to print the following pattern

```
1  
  
1 2  
  
1 2 3  
  
1 2 3 4
```

33- Identify the invalid identifier-

- 1- m#n
- 2- unit-day

- 3-4gh
- 4-for
- 5-#sum
- 6- True

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-** (i)-Write a program to check whether a number is divisible by 7 or not
(ii)-Write a program to check whether number is even or odd.

SECTION-D(5 Mraks each)

36- (i)- A company decided to give bonus to employee according to following criteria- (3)

Time period of service	Bonus
More than 10 Years	10%
>=6 and <=10	8%
Less than 6 years	5%

Ask user for their salary and years of service and print the net bonus amount.

- (ii)- l=[500,600] (2)
L1=[35,45]
L.append(700)
L.extend(L1)

37- Find the output of the following: (5)

for i in (1,10):

- (i) **print(i)**

for i in "python":

- (ii) **print(i, end=' ')**

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

for i in range(2,10,2):

- (iv) **print(i)**

(v) **6**3**

38- (i) Find the output of the following- (3)

L=[1,2,3,["computer", "device"],4,5,["forty", "sixty"],6,7,8]
L[3][0]
L[3:6]
L[3][1]="memory"

- (ii) Consider the list L=[1,2,3,4,5] (2)
a- L+2 b- L*3