

**Home work for Autumn break**  
**CLASS: XI, COMPUTER SCIENCE**

Q1 (i) Draw a flowchart to find the minimum of three numbers..

(ii) Write full form of following

- 1) BCD
- 2) GB

Q2 (i) Which of the following identifiers are valid? Give reasons , if invalid:

(ii) ) Write the corresponding Python expressions for the following mathematical expressions:

$$\sqrt{a^2 + b^2 + c^2}$$
$$5x^4 + 3y^2 + 9$$

(iii) From the following, find out the valid identifier:

`_xyz_e`, `if`, `1efg`, `abc98`, `x1y2cz_fghd`, `abd.fik`, `5j`, `'15'`, `(5,10,15)`, `{“one”: “Delhi”, “two”:`  
`“Mumbai”}`, `INFO-PR`, `MYFILE`, `,`, `while`, `comp_sc`

Q3 : What will be the output of the following code :

```
a = 3+5/8
b= int(3+5/8)
c = 33//5
d=33%5
print (a, b, c, d)
```

(ii) Predict the output of the following code snippet:

```
Dict= { 'A' : 1, 'B' : 2, 'C' : 10 , 'D' :20}
temp=5;
for value in Dict.values( ):
    temp += value
print (temp)
```

(iii) What will be the output produced by following code fragment?

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

(iv) Find out the output of following code segment:

```
A,B,C=9,12,13
X=A-B/3+C*2-1
Y=A-B/(3+C)*(2-1)
Z=A-(B/(3+C)*2)-1
print(“X=”,X)
print(“Y=”,Y)
print(“Z=”,Z)
```

(v) What will be the output produced by the following code fragment :

(a) `name = “ Neeru”`

```

    age= 17
    print (name, "Hello")
    print ("You will be" , age +1 , " next year")
(b)      i = 1
          while i < 10
            print(i)
            i += 2

```

(vi) What will be the output of the following code and why?

```

a,b,c=0.1
d=0.3
e=a+b+c-d
f=a+b+c==d
print(e)
print(f)

```

(vii) What will be the output of following Python code?

```

x =10
x= x+15
x=x-5
print(x)
x,y = x-2 , 22

```

(viii) What is the output of the following lines of code?

```

if int('zero') == 0 :
    print("zero")
elif str(0) == 'zero':
    print (0)
elif str(0) == '0 ':
    print (str(0))
else:
    print('none of the above')

```

(ix) What is the output of the following lines of code?

```

a,b,c,d =9.2 , 2.0 , 4 , 21
print (a/2)
print(a//4)
print(b**c)
print(a%c)

```

(x) What is string slice? find the output of following python code :

```

Str=" python program"
Str[2:5]
Str[:6]

```

(xi) What value will be stored in "res" variable after executing each of the following expressions?

- i. res =7//3
- ii. res =49.0\*\*0.5
- iii. res =6%4
- iv. res= True and False

(xii) How String data type is different from List data type? Predict the output of the following code snippet:

```
>>>a = [5,10, 15, 20]
>>>a[2]= a[1] + 5
>>> a[3] =a[0]
>>> print(a)
```

(xiii) Write the output of the following code snippet:

```
hi ='UnderTaker'
bye ='OverTaker'
print ( hi [ -6 : -3 ] + bye [ 2 : 5 ] )
```

(xiv) Predict the output of following code snippet:

```
for x in [6, 7, 8]:
    for y in [4, 5, 6]:
        print(x, y)
```

(xv) Write the output for the following Python codes.

```
A={1:100,2:200,3:300,4:400,5:500}
print(A.items())
print(A.keys())
print(A.values())
```

Q4: (i) Rewrite the code in Python after removing all syntax error(s). Underline each correction done in the code

```
TEXT=""GREAT
DAY""
for T in range[0,7]:
print TEXT(T)
print T+TEXT
```

(ii) Write a Python script to print Fibonacci series' first 20 elements. Some initial elements of a Fibonacci series are:

0 1 1 2 3 5 8 .....