CLASS – XII
SUBJECT – COMPUTER SCIENCE (083)
CHAPTER – 3 [FUNCTIONS]
ASSIGNMENT

Q 1. **Rewrite the following code after removing error. Underline each correction done by you.**

```
def SI(p,t=2,r):
    return (p*r*t)/100


def  chksum :
    x = input ( "Enter a number")
    if (x % 2 = 0) :
        for i  range ( 2 * x ):
            print (i)
        loop else:
            print ( "#")



def Tot(Number)    #Method to find Total
    Sum=0
    for C in Range (l, Number+1):
        Sum+=C
    RETURN Sum
    print Tot[3]         #Function Calls
    print Tot[6]
```

```
DEF execmain( ):
    x = input ( "Enter a number")
        If (abs(x)=x) :
            Print ("You Entered a
    positive number ..")
        else:
            x=*−1
            print("Number made
    positive:"x)
    execmain()



def checkval:
    x = raw_input("Enter a number")
    if x % 2 = 0 :
        print x,"is even"
    else if x<0 :
        print x,"should be positive"
    else ;
        print x,"is odd"
```

Q 2. Define functions. Why there is a need to use a function in a program.

Q 3. **Differentiate between the following with the help of an example:**

   (a) Actual and Formal Parameters
   (b) Local and Global Variables
   (c) Positional and Default arguments

Q 4. **Write the type of tokens from the following :**

           if   roll_no   Else   int

Q 5. **Name the Python Library modules which need to be imported to invoke the following functions:**

(i) sin( )   (ii) randint ( )   (iii) uniform( )   (iv) ceil( )

Q 6. Find and write the output of the following:

```
a=10
def call():
    global a
    a=15
    b=20
    print(a)
call()
```

Q 7. How can you access a global variable inside the function, if function has a variable with same name?

Q 8. Write the output of the following code:

(a)
```
x = 50
def func(x):
    print('x is', x)
    x = 2
    print('Changed local x to', x)
func(x)
print('x is now', x)
```

(b)
```
x = 50
def func():
    global x
    print('x is', x)
    x = 2
    print('Changed global x to', x)
func()
print('Value of x is', x)
```

(c)
```
def func(a, b=5, c=10):
        print('a is', a, 'and b is', b, 'and c is', c)
func(3, 7)
func(25, c = 24)
func(c = 50, a = 100)
```
(d)
```
a=10
b=20
```

```
def change():
    global b
    a=45
    b=56
change()
print(a)
print(b)
```

Q 9. Find the output of the following:

```
def Change(P ,Q=30):
     P=P+Q
    Q=P-Q
    print( P,"#",Q)
     return (P)
R=150
S=100
R=Change(R,S)
print(R,"#",S)
S=Change(S)
```

Q 10. Find the output of the following:

```
def Position(C1, C2, C3):
    C1[0] = C1[0] + 2
    C2 = C2 + 1
    C3 = "python"

P1 = [20]
P2 = 4
P3 = "school"

Position(P1, P2, P3);
print(P1, ", ", P2, ", ", P3)
```