Python Function- Multiple Choice Questions

1. A variable defined outside a function is referred to as
   - a. Local variable
   - b. Only variable
   - c. Global variable
   - d. None of the above

2. Which of the following function headers is correct?
   - a. def Demo(P, Q = 10):
   - b. def Demo(P=10,Q = 20):
   - c. def Demo(P=10,Q)
   - d. Both a and c

3. What will be the output of the following program?
   ```
   x = 10
   def f():
       x= x + 10
       print(x)
   f()
   ```
   - a. 20
   - b. 10
   - c. Error: Local variable X referenced before assignment
   - d. None of the above

4. What will be the output of the following program?
   ```
   def Func_A(P = 10, Q = 20):
       P = P + Q
       Q = Q + 1
       print(P, Q)
   Func_A(Q = 20, P = 10)
   ```
   - a. Error: P and Q are not defined.
   - b. 20 10
   - c. 10 20
   - d. 30 21

5. What will be the output of the following program?
   ```
   Def test():
       x=10
   # Main Program #
   x = 11
   test()
   print(x)
   ```
   - a. 10
   - b. 11
   - c. Garbage value
   - d. None of the above

6. If a function does not return any value, then by default which type of value is returned by the function?
   - a. int
   - b. double
   - c. str
   - d. None

7. What will be the output of the following program?
   ```
   def test():
       global x
       x='A'
   # Main Program #
   x = 'Z'
   test()
   print(x)
   ```
   - a. Z
   - b. A
   - c. Garbage value
   - d. None of the above

8. What will be the output of following program?
   ```
   def test(x):
       x = 200
   # Main Program #
   x = 100
   test(x)
   print(x)
   ```
   - a. 100
   - b. Garbage value
   - c. 200
   - d. None of the above

9. What will be the output of the following program?
```
def test(x):
    p = 90

    # Main Program #
    p = 50
    print(test(p))
```

a. 90   b. 50
c. Error   d. None

10. What will be the output of the following program?
```
def evaluate_expression_1(Z):
    Z = Z + 5
    def evaluate_expression_2(Z):
        print('Hello')
        return Z
    return Z
value = 10
print(evaluate_expression_1(value))
```
a. Hello 10   b. 10
c. 15 Hello   d. 15

11. What will be the output of the following program?
```
def evaluate_expression_1():
    global x
    x = x - 5

    def evaluate_expression_2():
        global x
        return x + 3

    return evaluate_expression_2()
    # Main Program #
    x = 10
    print(evaluate_expression_1())
```

a. 5   b. 8
c. 10   d. 13

12. What will be the output of the following program?
```
def perform_multiplication(Num1, Num2):
    Num2 = Num1 * Num2
    return Num1, Num2
    # Main Program #
    Num2, Num1 = perform_multiplication(5,4)
    print(Num1, Num2)
```
a. 5, 4   b. 5, 20
c. 20, 5   d. 4, 5

13. What will be the output of the following program?
```
def Display(Designation, Salary):
    print("Designation = ",Designation, "Salary =  ",Salary)
    Display("Manager",25000)
    Display(300000,'Programmer')
```
a. Error: Type Mismatch
b. Manger 25000

   300000 Programmer
c. 300000 Programmer

   Manger 25000
d. None of the above