**Python Functions - Objective Type Question Paper**

**Total Questions:** 20  
**Marks:** 20  
**Time:** 30 minutes

**Section A: Multiple Choice Questions (MCQs) *(1 mark each)***

1. What is the correct keyword to define a function in Python?  
   a) function  
   b) def  
   c) define  
   d) fun
2. What will be the output of the following code?

def add(a, b=5):

return a + b

print(add(2))

a) 2  
b) 5  
c) 7  
d) Error

1. What is the return type of a function that does not return any value?  
   a) int  
   b) NoneType  
   c) str  
   d) void
2. What will be the output of the given code?

def func(x, y=[]):

y.append(x)

return y

print(func(1))

print(func(2))

a) [1], [2]  
b) [1], [1, 2]  
c) [1, 2], [1, 2]  
d) Error

1. What will be the output of the given code?

def test(a, b=10, c=20):

print(a, b, c)

test(5, c=30)

a) 5 10 30  
b) 5 30 20  
c) Error  
d) None of the above

1. Which of the following statements is **True** about functions in Python?  
   a) Functions in Python must always have a return statement  
   b) A function in Python can return multiple values  
   c) Functions cannot be nested in Python  
   d) Function names cannot be assigned to variables
2. What will be the output of the following code?

def square(x):

return x \* x

print(square(3))

a) 3  
b) 6  
c) 9  
d) None of the above

1. Which of the following is **not** a valid way to define a function in Python?  
   a) def my\_function():  
   b) lambda x: x+2  
   c) def 2func():  
   d) def func\_name():
2. What does the lambda keyword define in Python?  
   a) A normal function  
   b) An anonymous function  
   c) A recursive function  
   d) A generator function
3. Which of the following statements about default arguments in Python is **False**?  
   a) Default arguments must be at the end of the parameter list  
   b) Default values are assigned at function definition time  
   c) We can override the default argument by passing a different value when calling the function  
   d) Default values are assigned every time the function is called

**Section B: True/False Questions *(1 mark each)***

1. A function in Python can return multiple values as a tuple. **(True/False)**
2. Functions in Python are first-class objects. **(True/False)**
3. A function without a return statement returns None by default. **(True/False)**
4. It is mandatory to specify types for function parameters in Python. **(True/False)**
5. The global keyword allows a function to modify a global variable. **(True/False)**

**Section C: Fill in the Blanks *(1 mark each)***

1. In Python, the keyword used to define a function is **\_\_\_\_\_\_\_\_**.
2. A function defined inside another function is called a **\_\_\_\_\_\_\_\_ function**.
3. The return statement is used to **\_\_\_\_\_\_\_\_** a value from a function.
4. The special variable used inside a function to accept variable-length arguments is **\_\_\_\_\_\_\_\_**.
5. The lambda function is also known as an **\_\_\_\_\_\_\_\_ function**.