Test

Python Functions - Test

Section 1: Multiple Choice Questions (MCQs)

1. What is the correct way to define a function in Python?

   a) function myFunction():

   b) def myFunction():

   c) define myFunction():

   d) func myFunction():

2. What will be the output of the following code?

   ```
   def test():
       return 5 + 3
   print(test())
   ```

   a) 5

   b) 3

   c) 8

   d) Error

3. What is the default return value of a function that does not have a return statement?

   a) 0

   b) None

   c) Empty String

   d) Error

4. Which statement is true about Python functions?

a) A function can return multiple values

b) A function must always have a return statement

c) A function can return only integers

d) Functions cannot be nested

5. What will be the output of the following code?

```python
def myFunc(a, b=10):
    return a + b
print(myFunc(5))
```

a) 5

b) 10

c) 15

d) Error

Section 2: Practical Questions

1. Write a Python function `square` that takes a number as input and returns its square.

2. Write a Python function `is_even` that checks if a given number is even or not. The function should return `True` if the number is even and `False` otherwise.

3. Create a function `calculate_area` that takes two parameters: `length` and `width`, and returns the area of a rectangle.

4. Write a Python function `factorial` that calculates the factorial of a given number using recursion.

5. Define a function `reverse_string` that takes a string as an argument and returns the reversed string.

End of Test