INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST

COMPUTER SCIENCE

CLASS: XII   Sub.Code: 083   Time Allotted: 50mts.

17.05.2023   Max .Marks: 20

GENERAL INSTRUCTIONS:

- All questions are compulsory.
- Programming language is Python.

1. Define scope of a variable.   1

2. Write the output of the following code: 1

```
def add(a, b):
    return a+5, b+5
result = add(3, 2)
print(result)
```

3. Explain the LEGB rule in python function call.   2

4. Observe the following program. Rectify the errors and write the corrected code underlining the 2
corrections.
```
mynum = 9
def add9():
    mynum = mynum + 9
    print mynum
add9()
```
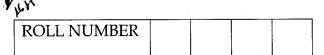
5. Give the output of the following code: 2
```
def fun1(num):
    global M
    M=M+2*M
    return num + M
M=4
x=fun1(2*M)
print(M,x)
```

6. Write a function **HowMany(ID, VALUE)** to count and display number of times the VALUE   3
is present in the list ID. For example, if the list ID contains [115, 25, 65, 59, 74, 25, 110, 250]
and the VALUE contains 25, the function should print: 25 found 2 times. Write main
program which calls this function.

7. Write a program which inputs a string. Pass this to a function and return the number of vowels   3
in the string.

8. What is the purpose of finally block in exception handling?   1

9. Give an example of TypeError.   1

10. Write the use of except block in exception handling.   1

11. Mention in which situation NameError occurs.   1

12. Explain raise statement with an example.   2

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GENERAL INSTRUCTIONS:

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- Programming language is Python.

1. What is meant by lifetime of a variable?   1

2. Give the output of the following code: 1
```
def outer_fun(a, b):
    def inner_fun(c, d):
        return c + d
    return inner_fun(a, b)
    return a
result = outer_fun(5, 10)
print(result)
```

3. Give the output of the following code: 2

```
def fun1(num):
    global M
    M=M+2*M
    return num + M
M=30
x=fun1(2*M)
print(M,x)
```

4. What is the difference between a Local Scope and Global Scope ? Also, give a suitable   2
    Python code to illustrate both.

5. Observe the following program. Rectify the errors and write the corrected code underlining the corrections. **2**

```
mynum = 9
def add9():
    mynum = mynum + 9
    print mynum
add9()
```

6. Write a program which inputs a string. Pass this to a function and return the number of uppercase letters in the string. **3**

7. Write a function **HowMany(ID, VALUE)** which returns the number of times the VALUE is present in the list ID. For example, if the list ID contains [115, 25, 65, 59, 74, 25, 110, 250] and the VALUE contains 25, the function should return 2. Write main program which calls this function and print the result. **3**

8. What is the purpose of try block in exception handling? **1**

9. Give an example of ValueError. **1**

10. Write the use of finally block in exception handling. **1**

11. Explain in which situation TypeError occurs. **1**

12. Explain assert statement with an example. **2**

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GENERAL INSTRUCTIONS:

- All questions are compulsory.
- Programming language is Python.

1. What do you mean by global variable?   1

2. Give the output of the following code: 1
```python
def outer_fun(a, b):
    def inner_fun(c, d):
        return c + d
    return inner_fun(a, b)
    return a
result = outer_fun(7, 12)
print(result)
```

3. Give the output of the following code: 2

```python
def Global(num):
    global M
    M=M-2*M
    return num + M
M=7
x=Global(2*M)
print(M,x)
```

4. Define life time of a variable. What will be life time of global variable and local variable?   2

5. Observe the following program. Rectify the errors and write the corrected code underlining the corrections.

```
mynum = 9
def add9():
    mynum = mynum + 9
    print mynum
add9()
```

2

6. Write a function **CountValue(ID, VALUE)** which returns the number of times the VALUE is present in the list ID. For example, if the list ID contains [115, 25, 65, 59, 74, 25, 110, 250] and the VALUE contains 25, the function should return 2. Write main program which calls this function and print the result.

3

7. Write a program which inputs a string. Pass this to a function and return the number of words in the string.

3

8. Give an example of IndexError.

1

9. Explain in which situation ValueError occurs.

1

10. Explain the use of finally block in exception handling.

1

11. What is the purpose of except block in exception handling?

1

12. Explain raise statement with an example.

2