

CYSE-250

Assignment – Functions in Python

[Total: 50 points]

Question (1) (Total: 20 points)

- a. (5 points) What is the significance of using function in python programming?
- b. (5 points) What does the following statement do? You may execute this in Python IDE and submit the screenshot for the output.

```
print(random.uniform(0.1, 0.5))
```

- c. (5 points) List five built-in functions in python.
- d. (5 points) What is meant by scope of a variable in python (function)? Explain with an example.

Question (2) (15 points)

- a. (5 points) What is difference between list, Tuple and Dictionary in python?
- b. (5 points) What is tuple in python? Explain with an example.
- c. (5 points) What is a module in python? How would you access a module in python? Explain with an example.

Question (3) (Total: 15 points)

- a. (5 points) Using/importing “math” library/module, use the **built-in** function (You need to explore the function online) to find the **largest** item from a given list.
Please submit the screenshot for your code and its output.
- b. (10 points) Write a function in python, that should do the following:
 - i) **add(num1, num2)**: Returns the sum of two numbers num1 and num2.
 - ii) **subtract(num1, num2)**: Returns the result of subtracting num2 from num1.
 - iii) **multiply(num1, num2)**: Returns the product of two numbers num1 and num2.

Please submit the screenshot for your code and its output.