

Internal Assessment Question Paper – 2
Ramajiah Institute of Technology
 (Autonomous Institute Affiliated to VTU)
 Department of CSE

Programme: B.E**Course : Introduction to Python Programming****CIE: 2****Max Marks: 30****Sem.: 2****Time: 1Hr****Term: 30.11.2022-10.03.2023****Course Code :PLC142****Section:1-6****Portions for Test: L12 – L22****Instructions to Candidates:**

- Question No. 1 is Mandatory**
- Answer any one question from Question No. 2 or 3. Each Question carries 15M.
- Mobiles, smart watches or any electronic gadgets are strictly banned.

| Sl# | Question | Marks | Bloom's Level | CO Mapping |
|-----|---|-------|---------------|------------|
| 1a | <p>What would the below code produce when executed (if there is an exception please do mention the name of the exception)?</p> <p>i. <code>print(55/0)</code></p> <p>ii. <code>a = []</code> <code>print(a[5])</code></p> <p>iii. <code>def get_age():</code> <code>age = input('Please enter your age: ')</code> <code>if age < 0:</code> <code>raise ValueError, '%s is not a valid age' % age</code> <code>return age</code></p> <p> <code>>>> get_age()</code> Please enter your age: -2</p> <p>iv. <code>>>> tup = ("a", "b", "d", "d")</code> <code>>>> tup[2] = "c"</code></p> <p>v. <code>def recursion_depth(number):</code> <code>print("Recursion depth number", number)</code></p> <p> <code>try:</code> <code>recursion_depth(number + 1)</code> <code>except:</code> <code>print("I cannot go any deeper into this .")</code></p> <p> <code>recursion_depth(0)</code></p> | 5 | L3 | CO5 |
| b. | Explain Pure Functions with an example. | 5 | L2 | CO4 |
| c | Explain namespace with an example. | 5 | L2 | CO3 |

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| | 2 OR 3 | | | |
| 2a | What is operator overloading? Write a python program to create a class called Mylist that shadows a python list: it should overload + operator to append the data to the list. Also provide constructor for your class that takes an existing list. | 5 | L3 | CO4 |
| b | How to read the whole file at once in Python? Explain this concept with a program in detail. | 5 | L3 | CO3 |
| c | Explain the following with an example: <ul style="list-style-type: none"> i. finally clause ii. try statement | 5 | L2 | CO5 |
| | | | | |
| 3a | What is an exception? When can we raise an exception? Write a python program to raise an exception which reads input from the user and check that the number is non-negative. | 5 | L2 | CO5 |
| b | What is a Linear Search? Write a program for Linear search in Python. | 5 | L3 | CO3 |
| c | Explain briefly with an example for each of the following: <ul style="list-style-type: none"> i. Converting an instance to a string ii. Instances as return values iii. Objects are mutable | 5 | L2 | CO4 |