Enroll. No._____

MARWADI UNIVERSITY
MU-FOT
CE-FOT1 (MU), IT-FOT1 (MU)
Semester 7 - Summer

Subject : PROGRAMMING WITH PYTHON (01CE0705)
Date : 12-May-2022 **Time : 3 Hours** **Total Marks : 100**

Instructions :

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Que.1 (A) Answer the following objectives **[10]**

(1) __del__ method is used to destroy instances of a class.
A) True
B) False

(2) What command is used to insert 6 in a list "L" at 3rd position?
A) L.insert(2,6)
B) L.insert(3,6)
C) L.add(3,6)
D) L.append(2,6)

(3) Which one of the following is the process of inserting an element in the stack?
A) Insert
B) Add
C) Push
D) None of the above

(4) Which of the following is not a type of inheritance?
A) Double-level
B) Multi-level
C) Single-level
D) Multiple

(5) What is the output of the following code?
str = "Hello World"
print(str[7:])
A) o
B) rld
C) orld
D) None of the above

(6) What does the thread.join() method do?
A) Merges two threads into one
B) add the thread into the pool
C) Restricts the access of any resource
D) Waits for a thread to finish its execution

(7) When is the finally block executed?
A) when there is no exception
B) when there is an exception

C) only if some condition that has been specified is satisfied
D) always

(8) When will the else part of try-except-else be executed?
A) always
B) when an exception occurs
C) when no exception occurs
D) when an exception occurs in to except block

(9) What does the function re.match do?
A) matches a pattern at the start of the string
B) matches a pattern at any position in the string
C) such a function does not exist
D) none of the mentioned

(10) If the elements '1', '2', '3' and '4' are added in a stack, so what would be the order for the removal?
A) 1234
B) 2134
C) 4321
D) None of the above

Que.1 (B) Answer the following questions. **[10]**

(1) What is the use of chr() function in Python? The chr() function is used to get the character representation of an ASCII value.

(2) The use of [0-9] is to validate It is used to validate numeric input.

(3) State True/False: The use of * in regular expression is to check for Zero or More occurrences. True

(4) What is the difference between / and // operator in Python? / performs float division, while // performs integer division.

(5) Given the list L=[1,3,6,82,5,7,11,92] , write the output of print(L[2:5]). [6, 82, 5]

(6) Name any one type of errors in python. SyntaxError, for example.

(7) What is default access specifier for data members or member functions declared within a class? It is "public"

(8) Define thread. A thread is the smallest unit of execution within a process; it runs independently.

(9) What is the use of split() function? The split() function is used to split a string into a list of substrings based on a specified delimiter.

(10) State true of false for the following statement:
The range function in python cannot work with decrementation. False print(list(range(10, 0, -1)))

Que.2

(A) Explain the following functions of dictionary data structure with example: [8]
1. values()
2. get()
3. popitem()

(B) Explain the start() method of multithreading with example program. [8]

OR

(B) Explain the join() method of multi-threading with example program in Python. [8]

Que.3

(A) Exaplin any 2 built-in exception classes in python with example progtam. [8]

(B) Explain Membership Operators in Python with example. [4]

(C) What is a thread? What is multithreading? List out any two applications of multithreading. [4]

OR

(A) What are destructors in Python? Explain with Syntax and Example. [8]

(B) Write the steps involved in thread lifecycle. [4]

(C) Which operations are associated with queue data structure? [4]

Que.4

(A) What are class and instance variables? Explain with example. [8]

(B) Explain try, except, finally, and else block in exception handling with an example program. [8]

OR

(A) Explain the self parameter in Python with example program. [8]

(B) Write a program in Python that counts the number of objects created and prints the count. [8]

Que.5

(A) What is the use of ^ in regular expression in Python? Explain with one example program. [6]

(B) Explain the following string functions with example: [6]
1. istitle()
2. islower()
3. isupper()

(C) Is it compulsory to have else block in exception handling? Explain with an example. [4]

OR

(A) Define a function that can accept two strings as input and print the string with maximum length. [6]

(B) Write a function generate a graph using Dictionary in Python. [6]

(C) State the differences between Exception and Error. [4]

Que.6

(A) Explain the following methods of List data structure in Python with example: [8]
1. append()
2. count()
3. insert()
4. remove()

(B) Differentiate between else and finally block in exception handling. [4]

(C) Which data structures are used in Python? [4]

OR

(A) Write a python script to handle any 3 exceptions in a single program. [8]

(B) Differentiate between else and finally block in exception handling. [4]

(C) Explain with example, why do we need exception handling in python? [4]

---Best of Luck---

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Difficulty Level	Weightage Recommended	Weightage Actual	No of Question	Total Marks	Question List
High	20	6.98	2	12	3(B), 4(B)
Low	20	61.63	33	106	1(A), 1(B), 3(A), 3(C), 4(A), 4(B), 5(A), 5(B), 5(C), 6(A), 6(B), 6(C)
Medium	60	31.40	10	54	1(A), 1(B), 2(A), 2(B), 3(A), 3(B), 5(A), 5(B), 6(C)

Module Name	Weightage Recommended	Weightage Actual	No of Question	Total Marks	Question List
Basics of Python	10	11.05	6	19	1(A), 1(B), 3(B), 5(A), 5(B)
Structure Types and mutability	10	11.05	5	19	1(A), 1(B), 2(A), 6(A)
Exception, Testing and Debugging	20	27.33	11	47	1(A), 1(B), 3(A), 4(B), 5(C), 6(A), 6(B), 6(C)
Classes and OOP Concepts	20	20.35	7	35	1(A), 1(B), 3(A), 4(A), 4(B)
Algorithm and Data Structure	20	9.30	5	16	1(A), 3(C), 5(B), 6(C)
Advance Topics	20	20.93	11	36	1(A), 1(B), 2(B), 3(B), 3(C), 5(A)

Blooms Taxonomy	Weightage Recommended	Weightage Actual	No of Question	Total Marks	Question List
Remember / Knowledge	10	81.40	38	140	1(A), 1(B), 2(A), 2(B), 3(A), 3(B), 3(C), 4(A), 4(B), 5(A), 5(B), 5(C), 6(A), 6(B), 6(C)
Understand	20	4.65	1	8	6(A)
Apply	25	6.98	2	12	4(B), 5(C)
Analyze	25	4.65	3	8	1(A), 5(B)
Evaluate	10	0.00	0	0	
Higher order Thinking	10	2.33	1	4	3(B)