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Paper Code : BCAC301 Python Programming

UPID : 3000070

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :

[1 x 10 = 10]

- (I) A void function return a _____ value to its caller.
- (II) When using slice operations _____ is generated if the index is outside the list.
- (III) What will be the output of the following python code?
for i in range(6,0,-2):
print(i)
- (IV) _____ opens the file in both writing and reading modes.
- (V) _____ variables must be prefixed by the class name and dot operator.
- (VI) >>> print("12" + "20"), the output is _____
- (VII) Non executable, additional lines added to a program are known as _____
- (VIII) Python uses _____ to form a block of code.
- (IX) What will be the output of the following python code?
>>>s = "abc123"
>>>s[:3]
- (X) What is the difference between local and global variables in Python?
- (XI) What is replication of a list? Provide an example.
- (XII) What will be the output of the following python code?
>>> t1=tuple("a1b2c3")
>>>t1

Group-B (Short Answer Type Question)

Answer any three of the following :

[5 x 3 = 15]

2. What is string concatenation and replication in Python? Provide examples of both operations. [5]
3. Explain the difference between the if, if..else statements in Python, with examples. [5]
4. Differentiate between pop(), del in list with examples in python. [5]
5. How do you use the max(), min(), and sum() functions with dictionary values? Provide examples. [5]
6. Explain the use of the index(), append() methods in list with examples in python. [5]

Group-C (Long Answer Type Question)

Answer any three of the following :

[15 x 3 = 45]

7. (a) What is two dimensional list. Give one example. [7]
- (b) Write a program in python that input a string in lowercase and create a list with the uppercase of that input and print the list. [8]
8. (a) Define tuple and write a code to create a tuple with multiple elements. [7]
- (b) What is dictionary? Write code in python to create and display a dictionary. [8]
9. (a) Define constructor. Mention the different types of constructor supported by python. [8]
- (b) Define abstract class in python. Explain with an example. [7]
10. (a) Differentiate between formal and actual argument in python. [7]
- (b) With an example, explain what is keyword argument in python. [8]
11. (a) Differentiate between single line and multi line comments in python. [7]
- (b) What are the different type of assignment in python. [8]