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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) Which of the following commands will create a list?
 - a) list1 = list()
 - b) list1 = []
 - c) list1 = list([1, 2, 3])
 - d) all of the mentioned
- (II) Which of the following is a Python tuple?
 - a) [1, 2, 3]
 - b) (1, 2, 3)
 - c) {1, 2, 3}
 - d) {}
- (III) Which of the following statement is false with respect to Python dictionary?
 - (a) The values of a dictionary can be accessed using keys
 - (b) The keys of a dictionary can be accessed using values
 - (c) Dictionaries aren't ordered
 - (d) Dictionaries are mutable
- (IV) To open a file "c:\scores.txt" for writing operation, we use _____.
 - (a) outfile = open("c:\scores.txt", "w")
 - (b) outfile = open("c:\\scores.txt", "w")
 - (c) outfile = open(file = "c:\scores.txt", "w")
 - (d) outfile = open(file = "c:\\scores.txt", "w")
- (V) Who developed Python Programming Language?
 - a) Wick van Rossum
 - b) Rasmus Lerdorf
 - c) Guido van Rossum
 - d) Niene Stom
- (VI) All keywords in Python are in _____.
 - a) Capitalized
 - b) lower case
 - c) UPPER CASE
 - d) None of the mentioned
- (VII) Which of the following character is used to give single-line comments in Python?
 - a) //
 - b) #
 - c) !
 - d) /*
- (VIII) What will be the output of the following Python code?


```
>>>str1="helloworld"
>>>str1[::-1]
```

 The options are:
 - (a) dlrowolleh
 - (b) hello
 - (c) world
 - (d) helloworld
- (IX) Which keyword in Python is used for create or define functions?
 - (a) Fun

- (b) Define
(c) def
(d) Function
- (X) What is the correct command to shuffle the given Python list?
fruit=['apple', 'banana', 'papaya', 'cherry']
A. fruit.shuffle()
B. shuffle(fruit)
C. random.shuffle(fruit)
D. random.shuffleList(fruit)
- (XI) What will be the output of the following Python code?

```
>>>t=(1, 2, 4, 3)
>>>t[1:-1]
```

- a) (1, 2)
b) (1, 2, 4)
c) (2, 4)
d) (2, 4, 3)
- (XII) What arithmetic operators cannot be used with strings?
a) +
b) *
c) -
d) All of the mentioned

Group-B (Short Answer Type Question)

Answer *any three* of the following :

[5 x 3 = 15]

2. How to read and write a text file in python? Explain with all the functions. [5]
3. Define dictionary with an example. [5]
4. What is identifier token in Python? [5]
5. Write down the different features of OOPs Programming. [5]
6. Difference between for and while statements in Python with example? [5]

Group-C (Long Answer Type Question)

Answer *any three* of the following :

[15 x 3 = 45]

7. (a) How will you slice the given string in python? [3]
(b) Describe various methods that are used on a string. (Any Four) [5]
(c) Explain in detail about strings (in Python environment) with appropriate examples. [7]
8. (a) How to define a function in Python? [3]
(b) Write a function that inputs a number and prints the multiplication table of that number. [5]
(c) Briefly explain about fruitful functions with example. [7]
9. (a) What is the difference between Tuples and List in Python? [4]
(b) Differentiate between append() and extend () methods? [5]
(c) Discuss the Python List Methods with examples [6]
10. (a) Define Tuples with example? [4]
(b) Give Example for Tuple Assignment? [6]
(c) Why is a tuple immutable? [5]
11. (a) What are the main features of Python? [5]
(b) What is the difference between C and Python [5]
(c) What is the difference between Java and Python data types? [5]

*** END OF PAPER ***