



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

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 \*\*\*