

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**

Paper Code : BCAC403 Python Programming

UPID : 400088

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) What is Instantiation in terms of OOP terminology?
- (ii) Who developed Python Programming Language?
- (iii) What will be the output of the following Python code snippet?
`['hello', 'morning'][bool('')]`
- (iv) How to create an empty list?
- (v) _____ represents an entity in the real world with its identity and behavior.
- (vi) Is Python case sensitive when dealing with identifiers?
- (vii) Which character is used in Python to make a single line comment?
- (viii) What will be the output of the following Python code?

```
for i in range(float('inf')):  
    print (i)
```

- (ix) What will be the output of the following Python code?
`a=(1,2)
b=(3,4)
c=a+b
print(c)`
- (x) What is the biggest reason for the use of polymorphism?
- (xi) What will be the output of the following Python code snippet?

```
for i in '':  
    print (i)
```

- (xii) What will be the output of the following Python code?

```
a={}  
a[2]=1  
a[1]=[2,3,4]  
print(a[1][1])
```

Group-B (Short Answer Type Question)

Answer any three of the following :

[5 x 3 = 15]

- 2. What are differences between break & continue? Explain with example. [5]
- 3. What is an f-string and how do you use it? Check if a string contains only numbers? [5]
- 4. What is Type Conversion in Python? [5]
- 5. Write a Python Program to print the largest of the three numbers. [5]
- 6. Write a python Program to check whether a number is even or not. [5]

Group-C (Long Answer Type Question)

Answer any three of the following :

[15 x 3 = 45]

- 7. (a) How to define a function in python [5]
- (b) What is Arbitrary Arguments? [5]
- (c) What is Default Parameter Value? [5]
- 8. (a) What is Indentation in Python [5]

- (b) Explain Python if else statement. [6]
(c) What is nested if? [4]
9. (a) Write a python program to print multiplication table of a given number. [6]
(b) Display numbers from a list using loop. [4]
(c) Write a python program to count the total number of digits in a number. [5]
-10. (a) What is List? [5]
(b) Write a python program of List Traversal. [6]
(c) What is Dictionaries? [4]
11. (a) Main Concepts of Object-Oriented Programming (OOPs) [8]
(b) What is Polymorphism? [3]
(c) What is Compile time Polymorphism and how is it different from Runtime Polymorphism? [4]

*** END OF PAPER ***

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