

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA/IMCA Summer 2018–19 Examination

Semester: 2

Subject Code: 05101155/05301155

Subject Name: Python Programming

Date: 26/04/2019

Time: 02:00 pm to 04:30 pm

Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Answer the followings.**A. Write short notes.****(05)**

1. What is Functions?
2. What is debugging?
3. Define : String Slice
4. What is the output of 32>>4
5. How to write a comment in python?

B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks)**(10)**

1. Python was developed by _____.
 A) Guido van Rossum B) Tim Barner Li
 C) Amedeo Avogadro D) Leonhard Euler
2. Which is the correct operator for power(x^y)?
 A) X^Y B) X**Y C) X^^Y D) None of the mentioned
3. Which of the following is an invalid variable?
 A) my_string_1 B) 1st_string
 C) foo D) none of the above
4. What is the output of the below program?

```
def sayHello():
    print('Hello World!')
sayHello()
sayHello()
```

- A) Hello World! B) 'Hello World!' C) Hello D) None of the mentioned
 Hello World! 'Hello World!' Hello
5. What is the output of this expression, 3*1**3?
 A) 27 B) 9 C) 3 D) 1
6. What is the output when we execute statement: **list("hello")**?
 A) ['h', 'e', 'l', 'l', 'o'] B) ['hello'] C) ['llo'] D) ['olleh']
7. Suppose list1 is [2445, 133, 12454,123], what is max(list1) ?
 A) 2445 B) 133 C) 12454 D) 123
8. What is the output of the following code:

```
print("python".find("t"))
```

- A) 0 B) 2 C)-4 D) 1
9. Void function that doesn't return a value.(True/False)
10. Which Of The Following Keywords Marks The Beginning Of Function Block?
 A) fun B) define C) def D) function

Q.2 Answer the followings. (Attempt any Five)**(15)**

1. What is MATH functions? How it is used in Python, explain with example.
2. Explain “in” operator with example
3. What is an operator? Discuss precedence of Operator with suitable example.
4. Justify the statement “Strings are immutable”. And “list is mutable”
5. What is Interpreter? Explain the Use of Interpreter in Python Programming.
6. What is Modulus Operator and Boolean Expression with example.

Q.3 Answer the following. (Any three)

(15)

- 1) Write a Program to calculate trimmed mean of given list with N number of integer.
- 2) What are Errors? List and explain the different types of errors with suitable Example.
- 3) Explain Order of Evaluating an expression using precedence. Give example.
a = 20, b = 10, c = 15, d = 5
 - i) $e = (a + b) * c / d$
 - ii) $e = ((a + b) * c) / d$
 - iii) $e = (a + b) * (c / d);$
 - iv) $e = a + (b * c) / d;$
- 4) What is String? How to define String in Python. List any 5 String Handling in-built Functions and discuss any three with suitable example(s).

Q.4 Answer the following.

A. What is List? Explain insert and append method in details with an Example.

(05)

B. What is Recursion? Write a program to calculate factorial of given number by using recursion.

(10)

OR

B. Given an array A of N numbers, you have to write a program which prints the sum of the elements of array A with the corresponding elements of the reverse of array A.

If array A has elements [1,2,3], then reverse of the array A will be [3,2,1] and the resultant array should be [4,4,4].

(10)