PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA Winter 2018–19 Examination

Semester: 2   **Date: 13/12/2018**
Subject Code: 05101155   **Time: 10:30 am to 01:00 pm**
Subject Name: Python Programming   **Total Marks: 60**

Instructions:
1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1   Answer the following.
(A)   Answer the following.   (5)
1.   List Features of python.
2.   Give main difference between high level language and low level language.
3.   How to write comment in python?
4.   What is Composition?
5.   What is Recursion?

(B)   Do as Directed.   (10)
1. Is Python case sensitive when dealing with identifiers?
A) Yes   B) No
C) machine dependent   D) none of the mentioned
2. Which one of this is floor division?
A) /   B) //
C) %   D) None of the mentioned
3. What is the output of the following?
x = ['ab', 'cd']

for i in x:

    i.upper()

print(x)

A) ['ab', 'cd'].   B) ['AB', 'CD'].
C) [None, None].   D) none of the mentioned

4. What is the output when following statement is executed?

     >>>"a"+"bc"

A) a   B) bc
C) bca   D) abc

5. 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
6. The value of the expressions 4/(3*(2-1)) and 4/3*(2-1) is the same. State whether true or false.
A)True   B) False
7. What is the output of the code snippet shown below?
X="hi"

print("05d"%X)

A) 00000hi   B) 000hi
C) hi000   D) error

8. Is the output of print 0.1 + 0.2 == 0.3?
A) True   B) False
C) Machine dependent   D) Error

9. What is the result of the snippet of code shown below if x=1?

    x<<2

    A) 8   B) 1

    C) 2   D) 4

10. Which of these is not a core datatype?

    A) Lists   B) Dictionary

    C) Tuples   D) Class

Q.2 Answer the following. (Attempt any 5)   **(15)**

1. What are the differences between C and Python?
2. Write a note on debugging.
3. List out types of Operator supported by Python. Explain any two with example.
4. Write a note on recursion.
5. Explain looping and counting in string with example.
6. What is the use of islower() and isupper() method?

Q.3 Answer the following. (Attempt any 3)   **(15)**

1. How map can be used in Python program? Explain with a suitable example.
2. List out difference between 'assignment' and 'equal to' operator in python with the help of suitable example.
3. Write a program to find whether string is palindrome or not.
4. What are 'keywords' in python? List out the rules for naming variables in python.

Q.4 Answer the following.

(A) What is function? Why it is used? Explain Fruitful function and void function with example.   **(5)**

(B) Describe various methods used on a string with example. (Any Four)   **(10)**

OR

(B) What is python List? Describe the List usage with suitable examples.   **(10)**