

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA/IMCA Winter 2017 – 18 Examination

Semester: 2**Subject Code: 05101155/05301155****Subject Name: Python Programming****Date: 11/01/2018****Time: 10:30 am to 1:00 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 following.**A. Write short notes.****(05)**

1. What is Python? Name some of the features of Python.
2. Give the use of type Function.
3. Define recursive function.
4. Name the type of Boolean expression.
5. Define the syntax for passing arguments.

B. Multiple choice type questions.(Each of 01 mark)**(10)**

1. Which is the correct operator for power(x^y)?
[A] X^y [B] $X**y$ [C] $X^^y$ [D] None of the mentioned
2. Python is invented in year _____
[A] 2010 [B] 1994 [C] 1990 [D] 2005
3. Which of the following is use for function in python?
[A] Functions are reusable pieces of programs
[B] Functions don't provide better modularity for your application
[C] you can't also create your own functions
[D] All of the mentioned
4. Which keyword is use for function?
[A] fun [B] define [C] def [D] function
5. What is the output of `len([1, 2, 3])`?
[A] 1 [B] 2 [C] 3 [D] 4
6. Which of the following is an invalid variable?
[A] `my_string_1` [B] `1st_string` [C] `foo` [D] `_a`
7. All keywords in Python are in
[A] lower case [B] UPPER CASE [C] Capitalize [D] None of the mentioned
8. 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
9. Which of the following data types is not supported in python?
[A] Numbers [B] String [C] List [D] Slice
10. What is the type of `inf` in python?
[A] Boolean [B] Integer [C] Float [D] Complex

- Q.2 Answer the followings. (Attempt Any Five.)** (15)
1. Write a note on recursion.
 2. What is lambda function in python? Explain with any one example.
 3. Write a note on debugging.
 4. What is the use of islower() and isupper() method?
 5. What are the differences between C and Python?
 6. List out types of Operator supported by Python. Explain any two with example.
- Q.3 Answer the following. (Attempt Any three)** (15)
1. List out difference between 'assignment' and 'equal to' operator in python with the help of suitable example.
 2. What are 'keywords' in python? List out the rules for naming variables in python.
 3. How map can be used in Python program? Explain with a suitable example.
 4. What is Function? Explain any two inbuilt Functions used in python with example.
- Q.4 Answer the following.**
- A. Write a program to find whether string is palindrome or not. (05)
- B. List out all methods of string and explain any four of them. (10)
- OR**
- B. What is python List ?Describe the List usage with suitable examples (10)