

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA/IMCA Winter 2019–20 Examination

Semester: 2**Subject Code: 05101155****Subject Name: Python Programming****Date: 12/12/2019****Time: 10:30am to 1:00pm****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. Answer / Define the following in short.****05**

- 1 Is indentation required in python?
- 2 What are the built-in types of python?
- 3 Is a String Immutable Or Mutable In Python?
- 4 When Should You Use The “Break” In Python?
- 5 What Is the Difference between Pass and Continue In Python?

B. Multiple choice type questions/ Give the sentence true or false. (Each of 1 marks)**10**

- 1 What will be the output of the following Python code?
> a=[14,52,7]
> b=a.copy()
> b is a
 - a) True
 - b) False
- 2 What will be the output of the following Python code?
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
- 3 Is Python case sensitive when dealing with identifiers?
 - a) yes
 - b) no
 - c) machine dependent
 - d) none of the mentioned
- 4 What is the maximum possible length of an identifier?
 - a) 31 characters
 - b) 63 characters
 - c) 79 characters
 - d) none of the mentioned
- 5 Which of the following is invalid?
 - a) _a = 1
 - b) __a = 1
 - c) __str__ = 1
 - d) none of the mentioned

- 6 Why are local variable names beginning with an underscore discouraged?
 a) they are used to indicate a private variables of a class
 b) they confuse the interpreter
 c) they are used to indicate global variables
 d) they slow down execution
- 7 Which of the following is an invalid statement?
 a) `abc = 1,000,000`
 b) `a b c = 1000 2000 3000`
 c) `a,b,c = 1000, 2000, 3000`
 d) `a_b_c = 1,000,000`
- 8 Which is the correct operator for power(x^y)?
 a) `X^y`
 b) `X**y`
 c) `X^^y`
 d) None of the mentioned
- 9 Operators with the same precedence are evaluated in which manner?
 a) Left to Right
 b) Right to Left
 c) Can't say
 d) None of the mentioned
- 10 What is the output of this expression, `3*1**3`?
 a) 27
 b) 9
 c) 3
 d) 1

Q.2 Answer the followings. (3 Marks Questions.) (Any Five) 15

- 1 What is Variable? Write down rules for python variable.
 2 Define Literals. List types of Literals. Explain any one in detail with example.
 3 Explain Recursion with suitable example.
 4 Explain user-defined function with suitable example.
 5 What are the differences between list and tuples in Python?
 6 What are the key features of Python?

Q.3 Answer the followings. (5 Marks Questions.) (Any Three) 15

- 1 Write a Program to traverse in list.
 2 What is MATH Function? What is Module file? How to use Math function in Python? Explain with example.
 3 List String Operations in Python. Explain any two with suitable example.
 4 List operators of Python. Explain any 2 with suitable example.

Q.4 Answer the following in detail.

- A. How to create tuple, add tuple items, remove tuple items? Explain with example of each. **05**
 B.(1) Define any five: Program, Input, Output, Math, Conditional Execution, Repetition.. **05**
 B.(2) What is debugging? Explain types of errors. **05**

OR

- B.(1) List out the list methods. Explain any two with suitable example. **05**
 B.(2) Write a program in Python to check if a sequence is a Palindrome. **05**