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

Semester:5/9	**Date: 29/11/2019**
Subject Code:05201333/05301533	**Time:10:30 am to 01:00pm**
Subject Name: Open Source Technologies and Frameworks	**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. What is Python?
2. Define List in Python.
3. What is Django?
4. What is the Extension of python script ?
5. What do you mean by doc-string?

 B. **Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks)** (10)
1. Which of these in not a core datatype?
    a) Lists   b) Dictionary   c) Tuples   d) Class
2. List and Tuple are used for similar concept with different type of syntax. True or False?
3. def' keyword is used to define variable in python. True or False?
4. Which of the following is not a keyword?
    a) eval   b) assert   c) nonlocal   d) pass
5. Tuple is immutable. True or False?
6. Choose the correct syntax of constructor in Python class
    a) init()   b) init(self)   c) __init__(self)   d) __init__()
7. Which module in Python supports regular expressions?
    a) re   b) regex   c) pyregex
    d) none of the mentioned
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. How many except statements can a try-except block have?
    a) zero   b) exactly one   c) at least one or more   d) more than zero
10. We MUST give default argument in functions of Python. True or False?

Q.2 **Answer the followings. (3 Marks Questions.) (Any Five)** (15)
1. Write down difference between list and tuple.
2. Explain __ init__ method in python?
3. What is Assertion? Explain its use in Python with an example.
4. Write down about Identity Operator.
5. What is CMS? Write down features of Joomla.
6. How to define function in Python? Give short example.

Q.3 **Answer the following. (5 Marks Questions)(Any three)** (15)
1. Explain any 5 features of Python in detail.
2. Explain exception handling mechanism in python with example.
3. Explain various types of function arguments with example.
4. Explain string datatype with example. Also discuss in-built string functions.

Q.4 **Answer the following in detail.**
A. Explain classes and objects in python. (05)
B.(1) Explain with example database connection in python. (05)
B.(2) Write a python program to create a list. Also add, update and delete items from list. (05)
OR
B.(1) Explain branching and looping statements in python with examples. (05)
B.(2) Write a program to create a dictionary. Also add, update and delete items from dictionary. (05)