Seat No: _____   Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. Summer 2018 - 19 Examination

Semester: 7   Date: 13/05/2019
Subject Code: 03105432   Time: 10:30am to 1:00pm
Subject Name: Advanced Python   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 short questions. (All are compulsory) (Each of one mark)   (15)

1. How to Delete Python Class, Attribute, and Object?
2. Which method is used to connect with database in Python?
3. Which of the following is correct syntax to bind host with a port number?
   a) socket.bind(host)
   b) socket.connect(host,port)
   c) socket.accept(host,port)
   d) socket.bind(host,port)

4. What is NumPy?
5. What is Pandas in Python?
6. What is PyQt?
7. What is JSON? How you would convert JSON data into Python data?
8. Which method is used to read the data from CSV file usding pandas?
9. In which direction is the turtle pointed by default?
   a) North   b) South   c) East   d) West
10. _____ are geometry managers in Tkinter.
    a) pack manager   b) grid manager   c) place manager   d) All of these
11. Using a grid manager, you can use the option _____ to place a component in multiple rows and columns.
    a) row b)column c) rowspan & columnspan d) none of these
12. Which methods is used to create a cursor in Python using sqlite3? Assume that connect object is stored in a variable called as " conn"
    a) Conn.cur()
    b) Conn.cursor()
    c) Conn.execute()
    d) None of the above

13. What is Beautiful Soup?
14. What is python Urllib Module?
15. Which method is used to generate random numbers using numpy?

Q.2 Answer the following questions. (Attempt any three)   (15)
A) Explain python socket library methods.
B) Explain method overloading and method overriding in python with example.
C) Write a program to draw a Square and star using turtle.
D) Demonstrate different types of inheritance concepts with example.

Q.3 A) What is python multithreading? Explain the functions used for multithreading in python. **(07)**

B) Write a python program to search a specific value from a given list using binary search **(08)**
method.

OR

B) Write a python program to sort elements using bubble sort algorithm. **(08)**

Q.4 A) Consider a database table for school with attributes roll no, students name, standard, **(07)**
div, Address, parents name and parents contact no. Write a program which allows
insertion and deletion of records in school table using python.

OR

A) Consider a database table for school with attributes roll no, students name, standard, **(07)**
div, Address, parents name and parents contact no. Write a program which allows
searching and updation of records in school table using python.

B) What is Django? Explain MVT Pattern. What are the features of Django **(08)**