**PP QB Sessional**

**1. What are the different loop control statements available in Python? Explain with suitable examples.**

**2. Differentiate between Method Overloading and Method Overriding.**

**3. Write short note on**

**i. Inheritance ii. Encapsulation**

**iii. Polymorphism iv. Abstraction**

**4. Explain the difference between function and module**

**5. Explain the following functions of NumPy library with the help of examples**

**i. max ii. min iii. sum**

**iv. mean  v. std**

**6. Write Python code to determine whether the given string is a Palindrome or not.**

**7. Explain Naïve Bayes Algorithm along with the example**

**8. Differentiate between regression and classification algorithms.**

**8. Differentiate between Supervised and Unsupervised learning**

**10. Explain the following Flask HTTP methods**

**i. GET ii. HEAD iii. POST**

**iv. PUT  v. DELETE**

**11. Design a code to print the table of 10 by Embedding Python statements in HTML**

**12. Write Difference between Pandas Series and NumPy Arrays**

**13. Explain any 5 attributes of data frames in pandas**

**14. What is the lambda function? Write the characteristics of a lambda function. Explain the same with an example.**

**15. What do you mean by a constructor? List and describe various constructors used for converting to different data types.**

**16. Write a Python program to create a class representing a Circle. Include methods to calculate its area and perimeter.**