**Scripting Languages**

**UNIT-5**

1. What is a file?
2. List out different file opening modes.
3. Write the syntax of open() function in the context of files.
4. Write a statement to open a file in read mode named “test.doc”
5. What is the use of close() method on file object?
6. What is a file pointer?
7. How to move file pointer to a specific position?
8. How to get the current location of a file pointer?
9. Give general form of seek() method.
10. What is the use of seek() method?
11. How to read single line of a file?
12. What is the meaning “ab+” string while opening a file?
13. What is the return type of open() function?
14. What is the return value of readlines() method on file object?
15. How to rename a file?
16. How to create a new directory?
17. How to rename a file?
18. How to rename a directory?
19. How to remove a file?
20. Write about write() method on file object.
21. Write the syntax and usage of tell() method on file object.
22. What is the difference between class variable and instance variable?
23. What is method?
24. Write syntax to create a class in python programs.
25. List out all the built-in class attributes in python.
26. What is a constructor? How do you define constructor in python?
27. What is a destructor? How do you define a destructor in python?
28. What is garbage collection?
29. What is inheritance?
30. What is polymorphism
31. What is the use of \_\_init\_\_?
32. What is the use of \_\_del\_\_?
33. How to delete an object?
34. What is Encapsulation?
35. Write the syntax to create derived classes in python.
36. What is method overriding?
37. How do you represent private variables in python?
38. How to make a Python class member variable hidden from outside the class?
39. What is the use of “self” argument in a class method?
40. How do you access instance variables?
41. How do you access class variables?
42. How to access super class constructor?
43. How to derive a class to another class?

Ten Mark Questions:

1. a)Write about following functions and methods on file objects

i) open() ii) read() iii) readlines() iv) write() v) seek()

b) Compute the number of characters, words and lines in a file

2.

a) Find the number of occurrences of distinct words from a text file

b) Write a python program to read first n lines of a file

c) Write a program to read last n lines of a file

3.

a. Write and explain various file opening modes in python

b. Write a python program copy one file content into another file.

c. Write a python program to count the number of words in a text file

4.

What are the two types of files? Explain different file operations

5.

a) List the features and explain about different Object Oriented features supported by Python in detail.

b. Explain creating classes and creating objects with syntax and suitable example.

6.

a. Explain the concept of method overriding with an example.

b. How to declare a constructor method in python? Explain.

c. Explain how Inheritance can be achieved in python with an example.

7. a) Explain class inheritance with syntax and suitable example program.

b) Create the following inheritance and override sound() method in all the derived classes that is defined in base class.

**pet**

**dog**

**cat**

**parrot**

8)

a. Write a student class which include name, 5 subject marks and define average() & display() methods in it.

b. Explain how to achieve security to the data members of a class with suitable examples.