**Unit-III**

1. Illustrate common regular expression symbols and special characters used in python for string matching.
2. Explain the functionality of the following pattern matching and string searching functions in python
3. match() b. group() c. search() d. split() e. sub()
4. List and explain various methods available in Thread class of python.
5. How to access threads from python?
6. Discuss in brief about threads and process
7. What strings will be matched with the following regular expression pattern
8. ^From
9. ^Subject:hi$
10. \bthe\b
11. \Bthe.

State each of the above.

1. Write a multithreaded application, to execute the recursive functions-Fibonacci, factorial and summation.
2. Formulate the regular expression pattern for the following:
3. Words which starts with ‘the’
4. Matches only with word ‘the’
5. Any string which contains ‘the’ but does not begin with ‘the’
6. Differentiate between importing and loading of a module.
7. State the need of persistent storage
8. Explain the basic functionality of match() function
9. Explain the purpose of pipe and dot symbols used for pattern matching
10. Examine how python supports regular expression through the ‘re’ module with brief introduction and various built-in methods related to it.
11. Explain briefly about thread and threading module objects in python.
12. Differentiate between procedure/processes and threads
13. Differentiate between Lock and RLock.

**Unit-IV**

1. Explain the FLASK installation steps
2. Write the basic structure of flask application and explain it
3. Explain how routing done in flask application
4. Write a flask application illustrating the use of HTTP methods.
5. Explain in detail about the request object and response object used in the flask application with examples.
6. Briefly explain the file uploading through flask application.
7. What is WSGI?
8. How to use url\_for in the flask application?
9. What are the HTTP methods used in Flask?
10. Explain about the client-server architecture and in detail about the Web server.
11. Explain the structure of the HTML webpage with an example.
12. Define table tag and their attributes with an example.
13. Explain about Cascading Style Sheets with an example
14. Write syntax for defining url. And explain each part of url.
15. What is web framework.

**Unit-V**

1. State the need of ORMs. Explain in detail about SQLObject ORM by considering employee role database example.
2. Explain the functionality of object relational manager.
3. Write SQL commands and explain various operations performed on database with examples.
4. Discuss the SQL commands used for creating, using and dropping a database.
5. Describe in detail about python SQLAlchemy ORM with case study of Employee role database.