BT–8/M-23   **48253**

WEB AND INTERNET TECHNOLOGY

Paper–OE–CS–410A

Time Allowed : 3 Hours]   [Maximum Marks : 75

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. All questions carry equal marks.

UNIT–I

1. What is Internet and who is its owner ? Sketch and describe the Anatomy of Internet along with its basic building blocks. Also describe the impact of Internet on Society.

2. Answer the following questions in brief :

   (a) Give an overview of WWW along with its history.

   (b) What is the role of the Information Architect ?

   (c) Describe any three usability guidelines for designing the Search Interface.

UNIT–II

3. Give a brief description of the following in the context of Internet Services :

   (a) Broadband Internet Connection and its Hardware requirements.

48253/K/819/950   **P. T. O.**

(b) Clients, Servers and Workstations.

(c) Network Security and Firewalls.

4. Describe in brief the following in the context of HTML :

(a) HTML tags

(b) Table and Forms.

(c) Text Styles and Style Sheets.

UNIT–III

5. Answer the following questions in brief :

(a) List any three application areas where Python can be the most suitable language for development.

(b) List and describe the various standard data types defined in Python.

(c) Illustrate using an example the syntax and use of *if-else* statement in Python.

6. (a) How is a function defined ? How can we pass arguments in a function ? Write a program of your choice to illustrate the use of recursive function in Python.

(b) What are Lists and Dictionaries ? How is a dictionary created and how elements are added and deleted in a Dictionary ?

UNIT–IV

7. Explain the concept of classes and objects using an example program in Python. Also explain the following in the context of Python :

   (a) Inheritance and Encapsulation.

   (b) Exception handling.

8. (a) Describe the basic File handling Operations in Python.

   (b) How are tables created and searched using SQL ?