

Roll No. ....

Total Pages : 3

BT-8/M-23

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## 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.

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- (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 ?