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Total Pages : 3

BT-8/M-24 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

- (a) Discuss the Evolution of the Internet from its origins to its current state.
 - (b) Describe the anatomy of the Internet, including its underlying infrastructure and components.
- (a) Explore the applications of the Internet, with a focus on e-commerce.
 - (b) Give an overview of the process of Designing effective navigation systems for Websites.

UNIT-II

3. (a) Discuss the Hardware and Software requirements
for setting up an Internet connection. What factors
should be considered when selecting a modem?

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- (b) Define common terminologies used in networking, including node, host, workstation, bandwidth, network administrator, and network security.
- (a) Compare and constrast HTML5 with XHTML in terms of syntax and features.
 - (b) Describe the basics of cascading style sheets (CSS) and their role in Web design.

UNIT-III

- (a) Discuss the applications of Python in the information industry.
 - (b) Describe the basic Data types available in Python.
- (a) Explain functions and scoping in Python, including the definition and invocation of functions.
 - (c) Describe the creation insertion and deletion of items in Python data structures.

UNIT-IV

- 7. (a) How are classes used to define abstract data types?
 - (b) Discuss database operations using MySQL in Python, including connecting to a MySQL database, creating tables.

- 8. (a) How does exception handling allow Python programs to gracefully handle errors and exceptions at runtime?
 - (b) Explore the use of regular expressions (REs) in Python for pattern matching and text processing.