

Roll No.

Total Pages : 3

BT-8/D-22

48253

WEB AND INTERNET TECHNOLOGY

Paper—OE-CS-410A

Time : Three Hours]

[Maximum Marks : 75

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

UNIT-I

1. (a) What is Internet? How is it related to ARPANet? Write historic evolution of Internet.
(b) Explore the impact of Internet on the society. Describe the crime that happens through Internet. (8+7=15)
2. (a) What are the different types of navigation systems? How do you design navigation systems?
(b) Describe the term "Gatheres : Search engine component." How does it work? How searching can be effective? (8+7=15)

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UNIT- II

3. (a) Write note on the following :
- (i) Modem Configuration.
 - (ii) Workstation.
 - (iii) Bandwidth.
 - (iv) Network Security.
 - (v) Communication media.
- (b) Differentiate between packet filter firewalls, dynamic-packet filter firewalls and Kernel proxy firewall.
4. (a) Differentiate between :
- (i) HTML elements and tags.
 - (ii) HTML5 and XHTML.
- (b) Write note on the following :
- (i) How to control the image position using CSS in background?
 - (ii) What is the difference between class selector and id selector? (8+7=15)

UNIT- III

5. (a) Describe the **is** and **is not** operators and type () function. Also, discuss why Python is called as dynamic and strongly typed language.
- (b) Write a recursive Python function that recursively computes sum of elements in a list of lists. (8+7=15)

6. (a) Discuss the relation between tuples and lists, tuples and dictionaries in detail.
- (b) Explain the use of join() and split() string methods with examples. Describe why strings are immutable with an example. (8+7=15)

UNIT- IV

7. (a) What are abstract data types? Discuss different types of inheritance supported by Python? Explain.
- (b) Differentiate between else block and finally block in exception handling? Explain with an example program. (8+7=15)
8. (a) Write a brief note on following database operations :
- (i) Creation of a table.
 - ii) Data deletion from a table.
- (b) Why do we need regular expression in Python and plotting? Explore different types of regular expression. (8+7=15)