

16279(D) - 0 DEC 2016

B. Tech 8th Semester Examination
Internet and Internet Technology (NS)
CS-421(b)

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Candidates are required to attempt five questions in all selecting one question from each of the sections A, B, C & D of the question paper and all the subparts of the questions in Section E.

SECTION - A

1. (a) What is Internet? Briefly explain the history of Internet.
(b) Explain Client/Server Model in detail. (2×10=20)
2. (a) What is a proxy server and why do we need it? How a proxy server is related to HTTP?
(b) Explain the advantages and disadvantages of Online Shopping. Suggest some security measures for Online Shopping. (2×10=20)

SECTION - B

3. (a) What are the features of TCP? Explain the three way hand shake mechanism to establish a TCP connection.
(b) What is the purpose of the Domain Name System? Explain in detail. (2×10=20)
4. Discuss POP3 and IMAP protocols. How POP3 is different from IMAP, from an ISP's point of view? Imagine that you were called in to advise an ISP on which protocol it should support. What considerations would you bring up? (20)

SECTION - C

5. Explain how you could use HTML frames to provide a website that includes an advertisement for your company along with the content from any other web page. Show that HTML you would

2

16279

need to do this, assume that for your example the "other web page" is www.yahoo.com. Make sure that you explain how this works. (20)

6. Create a dynamic webpage for Online Auction Service (consider at least 10 items). (20)

SECTION - D

7. (a) What are various security threats and attacks in a computer system attached to a network? Discuss them in detail.
(b) Confidentiality, Integrity and Availability are called as the CIA triangle. Explaining each term, discuss why CIA is so important in data transmission over networks? (2×10=20)
8. Write short notes on:
(a) Firewalls (b) Security policies (2×10=20)

SECTION - E

9. (a) What is dial-up modem technology?
(b) What are some of the factors that determine whether a communication system is a LAN or WAN?
(c) What are cookies and what do they do?
(d) What is TELNET?
(e) For the following form, write down the Java Script code to swap the contents of the two text boxes
<FORMNAME="DaForm">
Input text 1 : <INPUT TYPE="TEXT" NAME="A">
Input text 2 : <INPUT TYPE="TEXT" NAME="B">
</FORM>
(f) State the commands in cascading style sheet used for grouping of elements.
(g) Differentiate Static web pages and Dynamic web pages.
(h) Why do we need a DNS system when we can directly use an IP address?
(i) Differentiate between virus and worm.
(j) What is Firewall? Is it a hardware or software? (10×2=20)