B4.5-R4: INTERNET TECHNOLOGY AND WEB SERVICES

NOTE:

> 1. **Answer question 1 and any FOUR from questions 2 to 7.**
> 2. **Parts of the same question should be answered together and in the same sequence.**

Time: 3 Hours   **Total Marks: 100**

1.

a)   Write some features of Web Services Description Language (WSDL).

b)   In what way could a hacker intercept credit card information used in an online transaction?

c)   What are the utilities of PHP-MySQL?

d)   What is the chief task of a Web server?

e)   What is Public Key Cryptography?

f)   Write the features of a firewall security.

g)   Write the liabilities of an ISP?

                                                                                              (7x4)

2.

a)   Write the HTML code for creating the following layout.

Heading	Another Heading
row 1, cell 1	row 1, cell 2
row 2, cell 1	row 2, cell 2

b)   Give an example of image map using HTML.

c)   What are different issues of managing an e-mail? How block sending of mail is possible and how?

                                                                                              (6+6+6)

3.

a)   Explain Three-Way Handshake Mechanism used by TCP to terminate a Session reliably.

b)   Illustrate the complete life cycle of an e-mail message.

c)   What are the major components of a web browser? Draw a neat diagram to explain them.

                                                                                              (6+4+8)

4.

a)   Does it make sense for two domain servers to contain exactly the same set of names? Why or why not?

b)   How does a computer know whether an arriving frame contains an ARP message? Explain.

c)   What is the chief advantage of using virtual packets instead of frames?

                                                                                              (7+6+5)

5.

a)   How many Octates does the smallest possible IPV6 datagram contain? Explain the significance of IPV6 over IPV4.

b)   What is Frame Filtering Techniques? How is it taking place?

c)   Describe the advantages of JAVA Servlets over CGI interface.

                                                                                              (6+5+7)

6.
a) Differentiate between http and ftp.
b) What is E-commerce? Which act governs the activities of e-commerce in India? Give some application of E-Commerce.
c) Which software uses DOM and how?

(7+7+4)

7. Write short notes on **any three** of the following:
a) RPC
b) TELNET
c) Search Engine
d) UDP
e) MPEG Compression

(3x6)