

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) Do you think World Wide Web has very important role in business? Justify.
- b) Differentiate between Java & JavaScript.
- c) How can you get the most accurate benchmarks for your Web server?
- d) What are the functions of environment variables in CGI Script?
- e) Write at least four features of MIME.
- f) What are the advantages and disadvantages of asymmetric crypto-system?
- g) Write the liabilities of an ISP?

(7x4)

2.

- a) How HTML is related to SGML? Write HTML code for creating the following layout.

Username:

Password:

- b) What are the tasks of a Web server? How to connect to your MySQL database from a PHP document?
- c) Why DOM is important to know while developing web sites?

(6+9+3)

3.

- a) What is centralized domain name mechanism? What are the problems with such a mechanism?
- b) Write the difference between Java Server Pages (JSP) and Active Server Pages (ASP)?
- c) Give the internal architecture of a web browser.

(5+5+8)

4.

- a) What is server side scripting? How and where an ASP program is executed?
- b) Write the name of OSI network layers. With the help of block diagram, describe how communication takes place between two host using OSI layers.
- c) What are the disadvantages of JavaScript?

(7+8+3)

5.

- a) What is hypertext? How is it related to hypermedia? Give examples.
- b) Differentiate between CGI & Servlet.
- c) How symmetric key cryptography is different from asymmetric key cryptography?

(6+5+7)

6.

- a) What are the hardware and software requirements for developing virtual reality?
- b) Compare between TCP versus UDP. Which one is more useful than the other?
- c) Write the name of the methods in the Java Applet life cycle.

(7+8+3)

7.

- a) Differentiate between HTTP GET and POST requests with example.
- b) Why session tracking is necessary in server side programming?
- c) Write the objectives and main elements of MPEG-7.

(8+5+5)