

2010

MSc-IT

Paper : 2.4

(Web Technologies)

Full Marks : 70

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Multiple choice questions (one of the four options in each question is correct, choose the correct one) : 1×7=7
- (a) The client required for validating and testing of Gopher publishing service is
- (i) Archie
 - (ii) Telnet
 - (iii) Gopher
 - (iv) Finger
- (b) FTP enforces two types of connections in managing data transfers over a network protocol, namely
- (i) server connection and data connection
 - (ii) control connection and data connection

- (iii) internet connection and data connection
- (iv) network connection and data connection
- (c) The correct HTML tag for the largest heading is
 - (i) <h1>
 - (ii) <h6>
 - (iii) <heading>
 - (iv) <h7>
- (d) How can you create an e-mail link?
 - (i)
 - (ii) <mail>xxx@yyy</mail>
 - (iii)
 - (iv) <mail href="xxx@yyy">
- (e) <! is a/an
 - (i) comment tag
 - (ii) paragraph tag
 - (iii) underline tag
 - (iv) None of the above
- (f) A file, which explains how the screen is sectioned into frames, is called a
 - (i) Link
 - (ii) Frameset
 - (iii) Packet
 - (iv) Web page

(g) There are — color names recognized by all version of HTML.

(i) 16

(ii) 8

(iii) 256

(iv) 216

2. State whether the following statements are True or False :

1×7=7

(a) The Gopher doesn't support the client-server software that searches files on the Internet.

(b) The default port number of HTTP is 90.

(c) Web servers and groupware systems are fat servers.

(d) Domain names are case sensitive.

(e) HTML tags are case sensitive.

(f) To create a link in a document to a section in the same document, you would use a bookmark.

(g) `target=_blank` specifies that when clicking a link, it will open in the same window.

3. Fill in the blanks :

1×7=7

- (a) A — script is a server-side program launched by a Web server to generate a dynamic content.
- (b) Firewall software is considered as an effective means to protect the Internet from —.
- (c) The multimedia objects can be embedded by — element that includes multimedia content with HTML document.
- (d) The two attributes in HTML coding are SRC and ALT and they come with — tag.
- (e) Web browsers correspond with Web servers using the — protocol.
- (f) onBlur, onClick and onFocus are all — handlers.
- (g) The default port number of the HTTP is —.

4. Match Column—A with Column—B : $1 \times 7 = 7$

Column—A	Column—B
(a) Display more than one HTML document in the same browser window or to divide the screen into separate windows	(i) FTP
(b) IPv4	(ii) Response header
(c) Remote login	(iii) Method
(d) Cell padding	(iv) Distance between cell and content
(e) Apache	(v) Holds information about the name space
(f) A utility for transferring files on the Internet	(vi) Web service
(g) URL	(vii) Web browser
	(viii) Frame
	(ix) TELNET
	(x) JavaScript
	(xi) 32 bits
	(xii) Web address
	(xiii) Space between cells
	(xiv) Web server
	(xv) HTTP

5. Answer any *three* of the following : $4 \times 3 = 12$

- (a) What is 2-tier system? What is middleware? Explain.
- (b) Explain the <TABLE> and tags used in HTML.
- (c) Write the differences between fat client and fat server.
- (d) What are style sheets? How is it used?
- (e) What do you understand by Domain Name System? Explain.
- (f) What are the characteristics of client/server architecture?

6. Answer any *two* from the following : $10 \times 2 = 20$

- (a) What is Web server? Discuss the conceptual architecture of Apache.
- (b) What is Web browser? Discuss the conceptual architecture of Mozilla Web browser.
- (c) With the help of <FRAMESET> and <FRAME> tags, explain how a document can be divided into different sections.
- (d) Write a program in JavaScript to display all the even numbers within a range of numbers where the starting and ending number of the range will be supplied by the user in two text boxes. Upon clicking a button, the numbers will be displayed. Use function to accomplish the task.

(7)

7. Write short notes on any *two* of the following : 5×2=10

(a) HTTP

(b) CGI

(c) IP addresses
