P1101

## [4066]-402

# S.Y. M.C.A. (Engineering Faculty) WEB TECHNOLOGY

(2008 Pattern) (610910) (Sem. - IV)

Time: 3 Hours]

[Max. Marks: 70

Instructions to the candidates:

- 1) Figures to the right indicate full marks.
- 2) Answers to the two sections must be written in separate answer books.
- 3) From Section-I, answer (Q.1 or Q.2) and (Q.3 or Q.4) and (Q.5 or Q.6).
- 4) From Section-II, answer (Q.7 or Q.8) and (Q.9 or Q.10) and (Q.11 or Q.12).
- 5) Make suitable assumptions wherever appropriate and relevant.

#### **SECTION - I**

- (01) a) State whether the following are True or false: [2]
  - i) "Protocol used to monitor and control network devices operates at application layer".
  - ii) "The transport protocol used by TFTP is UDP".
  - b) Comment and explain:
    - i) "All the dissimilar networks must use a common transmission protocol for communication".
    - ii) "MIME defines mechanism to use character encodings other than ASCII, and 8-bit binary content".
  - c) What are the major components of a web browser? Draw a neat diagram to explain them. [6]

#### OR

- Q2) a) What is a bridge? Explain its functions and their types. Explain simple bridge.[6]
  - b) What is the "Fat client problem" in 2-tier architecture? Explain how it is solved in 3-tier architecture with an example. [6]
- Q3) a) Write a program to create a web page the displays the output as shown in the fig.1 below: [8]
  - Define the frameset document main.html.

[4]

• In the left frame **left.html** document is loaded which contains a link **SHOW TABLE** which when clicked, the respective link opens in the right frame right.html document that displays "List of items".

Item Cos	le Item name	Price	Discount
01	Pencil	5	1%
02	Pen	20	1.5%
: 03	Notebook	40	2%
04	Diary	80	2.25%

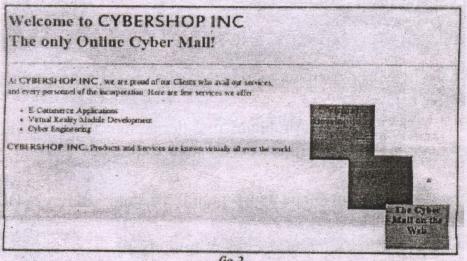
fig.1

b) What is the advantage of document-level style sheets over inline style sheets? What is the format of an external style sheet? [3]

#### OR

- Q4) Write a program code for CYBERSHOP INC, using style sheets with the following specifications:

  [11]
  - Define a style class '.Maxx' with the following attributes: {font-size: 120%; color: 'green'; font-weight: bold; font-family: cursive}.
  - Use the defined style class wherever the text 'CYBERSHOP INC.' appears on the web document.
  - Use unordered listing giving the list of services offered by CYBERSHOP INC.
  - Define three segments using <DIV>...</DIV> tags with background colors Blue, Green and Goldenrod positioned accordingly with the given text, Obtain an output as shown in fig.2 below:



Q5	() a)	Write a code to display the following form and add the VBScript to display the Interest when user enters Principal amount, Rate of Interest, No. of Years and clicks on calculate button. (Interest, $I = P \times r \times n$ ).[8]				
		Principal, P Annual Rate, r  No. of Years (n)				
		Interest, I				
		CLEAR				
	b)	Describe how a web server can be made dynamic.	[4]			
		OR				
Q6)	a)	What are the main differences between:	[6]			
		<ul><li>i) Servlet and CGI.</li><li>ii) Procedures Vs Functions.</li></ul>				
		iii) VBScript Vs. JavaScript.				
	b)	Explain the two kinds of procedures in VBScript with example. [	6]			
		SECTION - II				
Q7)	a)	What is Object Literal in JavaScript? Explain how JavaScript Object				
	b)	are different from C++/Java objects. [What is Function Object in JavaScript? Demonstrate how to create the control of the cont	6]			
	0,	function objects that uses Function Constructor and new Operator.	· West			
		OR				
28)	a)	Discuss all three approaches to addressing an HTML form element				
	b)	JavaScript. Also state the disadvantages of first two approaches. [What is Cookie? How it is created and read. Describe difference between	6]			
	U)	<u>에서</u> 이 사용하다 되었습니다. 경기 회원이라는 전환 경기 아니라 이 제상에 있다는 아니라 이 전에 대한 경우 아니라 했다.	6]			
29)	a)	Describe JSP Model-I and Model-II architecture with suitable diagram				
	b)	What is AJAX? Describe Ajax Web Application Model? How it	5] is			
			6]			
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Q10)a)	What is AJAX? Explain how AJAX technology works together	er to
	update a part of a page with new data from the server.	[8]
b)	What is JSP? What are the stages of JSP Life Cycle? Why is	JSI
	preferred over servlets?	[3
0111	What is NET France and P. Francis CI D. component with suit	obl

Q11)a) What is .NET Framework? Explain CLR component with suitable diagram of .NET Framework. [6]

b) How many types of validation controls are provided by ASP.NET?[6]

[12]

OR

### Q12) Write short notes on:

- a) XML HttpRequest Object in AJAX.
- b) Basic Web control classes.
- c) W3C Event Propagation Model.



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