

University of Vavuniya

First Examination in Information Technology -2022

First Semester – January/February 2024

IT1144 - Fundamental of Web Programming (Theory)

Answer any Four Questions

Time Allowed: Two hours

1.	(a) Briefly explain the World Wide Web (WWW).	[20%]
	(b) List down the communication services and briefly describe any four of them. Telnet Electronic Mail	[20%]
		[15%]
	(d) Write a short description of each of the following web technologies:	[25%]
	i. Web page -> contact of Him	
	1 124.0	
	iii. IP address - 12-2 Internet Poro Protocol Sunga	
Locatur	iv. Uniform Resource Locator (URL)	
ouncits	v. Hyperlink -> selectoric or clickett but or all	nase
·/	ii. Website iii. IP address iii. IP address	[20%]
1/ 4.	(a) Briefly describe the components of an email address with the aid of an example.	[15%]
not awned	(b) State the purpose for each of the following processes used in the search engine:	
atelign	i. Crawling -> sco-	
cable worlder	ii. Indexing - server address tera conjunc	
Dial -up	ii. Indexing -> server address for strong	[15%]
-) Dialog	[This question is continued on the next page]	
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- (c) Briefly describe each of the following terms in relation to a web browser:
 - i. User interface

Ux FUE!

- ii. The browser engine
- iii. Rendering engine [15%]
- (d) Define what is meant by the web server. [15%]
- (e) Briefly discuss the difference between Plugins and Extensions in web browsers. [20%]
- (f) Explain various uses of Hypertext Transfer Protocol (HTTP) with the aid of an example. [20%]
- (a) Briefly explain why the Uniform Resource Locator (URL) is important on the internet.
 - (b) Explain the various uses of Meta tags with the aid of examples. [15%]
 - (c) State what is meant by search engine and give any two examples. [15%]
- (d) Discuss the difference between the user interface (UI) and user experience (UX). [15%]
 (e) Write the HTML code for each of the following tasks:
 - Print two lists with any information you want. One list should be an ordered list and the other list should be an unordered list.
 - ii. Create a table on a web page with the following information:

Vehicle Price				
a	Oxford SUV	\$40,000.00		
Car	Toyoto Axio	\$20,000.00		
D	Toyoto coaster	\$30,000.00		
Bus	TATA	\$25,000.00		

[40%]

- (a) Define the main role of Cascading Style Sheets (CSS) in the context of web development.
 - (b) Briefly explain how to define the style by using CSS with suitable examples. [15%]

[This question is continued on the next page]

	(c)	State what is meant by an attribute in HTML and describe its components.	[15%]
	(d)	Briefly describe each of the following CSS selectors with suitable examples:	
		i. ID Selector	
		ii. Attribute Selector	[20%]
	(e)	Write the CSS code block for the following link states:	
		i. unvisited link	
		ii. visited link	
		iii. mouse over a link	
		iv. selected link	[20%]
	(f)	The CSS display property specifies how an element can be displayed. Discuss the	
red		difference between Inlineand Inline-block.	[20%]
€ 5.	(a)	Briefly describe the five advantages of Cascading Style Sheet (CSS).	[20%]
nces	(b)	Explain the following types of CSS syntax used in HTML.	[15%]
		i. Embedded/Internal CSS -> 2bodg>	
		ii. Inline CSS -> Lp ederences	. ()
		ii. Inline CSS -> 2p education iii. External CSS -> affile rel='style-thed' byet a treat p	
	(c)	Write the CSS code block to add opacity ("0.5") for the background colour red	
		of the $<$ p $>$ tag by using a RGB colour and set the top margin of the $<$ p $>$ tag to	
		"20px", the bottom margin to "30px", and the left and right margins to "40px".	[15%
6	_(d)	Explain the difference between "visibility: hidden" and "display: none".	[15%
	(e)	Write the CSS code block to accomplish each of the following tasks.	leter
		i. Change the background colour of <div> to "ff6600" and set the top margin</div>	
		of the <div> tag to "25px", the bottom margin to "75px", and the left and</div>	Į.
		right margins to "50px".	
		ii. Change the colour of all paragraphs and heading_1 elements to "blue". Group	þ
		the selectors to minimise the code.	

iv. Set the dash line border with size "2px" and colour "blue" to the paragraph.

[This question is continued on the next page]

iii. Add an external style sheet with the URL "mystyle.css".

v. Define grid view for a tablet screen.