Department of Information Technology, Jadavpur University
Bachelor of Information Technology 3rd year, 1st Semester Examination – 2019 Subject: Web Technologies-I

Time: Three hours

after 5 seconds.

Full Marks: 100

			Different parts of the same question should be answered together.
		[1] A (a)	Answer either (a) or (b) in this block
) What else we can do using HTTP except transferring file?
	,	i	i) What are web browsers and what are they used for? What web browsers do you know?
CO			ii) Describe with examples the format of an HTTP URL.
[20]		(b)	Write the usage of hidden field in an HTML document.
	•	i	i) Discuss differences between GET and POST methods of the HTTP protocol.
	2		ii) Suppose value of the "method" attribute of <form> element is mentioned as "POST". Write HTTP request method for it.</form>
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The second second	4	(a)	Inswer either (a) or (b) in this block [4+8+8] Write different scenarios where meta tags are used in HTML?
Company of the compan			Write a HTML document as follows: Page contains a single link "browser name" with default color blue. If the mouse is placed on the link, the color will change to red and cursor will appear as hand cursor. If the link is clicked, the name of the browser will be shown on an alert dialog box.
CO2 [20]	a sale of the sale of	ii	i) Write a Cascading Style Sheet that will make the color of all left aligned paragraphs red and right aligned paragraph green and justified paragraphs blue. Write also a sample HTML page.
- Harris		(b)	[4+8+8]
And any and		i)	Write with example the difference between "innerHTML" and "innerText"?
			How do you refer an external CSS file from a HTML page?
The state of the s		ii	A link is contained in an HTML frame. How can you indicate (i) that clicking the link will replace the content of this frame, leaving the other frames unchanged, (ii) that clicking the link will replace the whole browser window content?
			nswer either (a) or (b) in this block
General	-	(a) i)	Write a JavaScript function to display all tags used in a HTML document. [4+8+8]
were real and the second		ii)	· · · · · · · · · · · · · · · · · · ·
[20]		iii	Write a JavaScript function to find the make all paragraphs in an HTML document justified.
-	/	' b)	
100 mm		b) i)	Write a HTML page <i>first.html</i> which when loaded will redirect another page <i>second.html</i>

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ii)	Draw the DOM tree for the following segment of code: This
	is a sample of some HTML you might br>have in your document. Suppose
	the variable ptr points to the node corresponding to the br in the DOM tree. How can you access the attribute title of p tag?
iii	Write a minimal HTML page <i>home.html</i> as follows: It observes if the user is idle for more than 1 minute and if so it redirects another page <i>logout.html</i> .
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	nswer either (a) or (b) in this block
(a) i)	Write a HTML documents to display the current date and time on the status bar. [4+8+8]
ii)	Suppose a resource that was requested by the client is not found by the server. Write a sample response message for it.
iii)	Write a JavaScript function to validate the price (taken as an argument) of an item up to two decimal digits using regular expression.
(b)	14+8+81
i)	What benefits does AJAX bring?
ii)	Briefly outline an AJAX based program.
iii)	Write with examples the usage of 'for-in' construct in JavaScript?
	swer either (a) or (b) in this block
	[4+8+8]
1)	Find the sequence generated by the following XQuery expression:
	for \$i in (1 to 5) return for \$j in (1 to \$i) return \$j
ii)	Describe with examples the format of a location step in XPath.
iii)	Write an equivalent XPath expression for the following XQuery expressions.
	<pre>empty(for \$i in //student[name='Tom']/marks return if(\$i >= 50) then () else false())</pre>
	<pre>empty(for \$i in //student[name='Tom']/marks return if(\$i < 50) then false() else ())</pre>
(b)	[4+8+8]
i)	The age of an employee is a positive integer and less than 128. Create a data type for it in schema.
ii)	How you define optional and required attributes in schema?
	Mention benefits of schema over DTD.
	[4] Ar (a) i) ii) iii) (b) i) iii) [5] An (a) i) iii) iii)