

CBCS SCHEME

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BPLCK105A/BPLCKA105

First Semester B.E./B.Tech. Degree Examination, Jan./Feb. 2023

Introduction to Web Programming

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C																
Q.1	a.	Write a graphical overview of the HTML markup syntax with an example.	5	L1	CO1																
	b.	Explain in details the Rules of (X) HTML.	8	L2	CO1																
	c.	Explain the future of markup two path.	7	L2	CO1																
OR																					
Q.2	a.	Explain the myths and misconceptions of HTML and XHTML.	7	L2	CO1																
	b.	Define the following tags with an example : i) meta ii) <link> iii) <base> iv) <object> v) <Script> vi) Comment.	6	L1	CO1																
	c.	Write short notes about the major themes of (X) HTML and Validation.	7	L1	CO1																
Module – 2																					
Q.3	a.	Explain the role of the following semantic elements of HTML5 with syntax and Script segments : i) <nav> ii) <section> iii) <aside> iv) <div>	8	L2	CO2																
	b.	List and explain the HTML4 elements removed from HTML5 and removed HTML4 attributes in HTML5.	12	L2	CO2																
OR																					
Q.4	a.	Write HTML code for the following table : <table border="1"><thead><tr><th rowspan="2">Day</th><th colspan="2">SEMINAR</th></tr><tr><th>Schedule</th><th>Topic</th></tr></thead><tbody><tr><td>Monday</td><td>8.00 am – 11.00 am</td><td>Introduction to HTML</td></tr><tr><td rowspan="2">Tuesday</td><td>11.00 am – 2.00 pm</td><td>Introduction to CSS</td></tr><tr><td>10.00 am – 2.00 pm</td><td>Advanced HTML</td></tr><tr><td>Wednesday</td><td>8.00 am – 5.00 pm</td><td>Introduction to XML</td></tr></tbody></table>	Day	SEMINAR		Schedule	Topic	Monday	8.00 am – 11.00 am	Introduction to HTML	Tuesday	11.00 am – 2.00 pm	Introduction to CSS	10.00 am – 2.00 pm	Advanced HTML	Wednesday	8.00 am – 5.00 pm	Introduction to XML	12	L3	CO2
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	b.	Explain the Client Side Graphics with <Canvas>.	8	L2	CO2																
Module – 3																					
Q.5	a.	Define CSS and list out its benefits with explanation.	8	L1	CO3																
	b.	What are Selectors? List and explain selectors with an example code Snippet.	12	L1	CO3																

1 of 2

OR

Q.6	a.	Write an HTML document that has six short paragraphs of text. Define three different paragraph styles P1, P2 and P3. The P1 style must use left and right margins of 20 pixels, a background color of RGB value for yellow and a foreground color of blue. The P2 style must use a font size of 18 points, font name 'Arial' and font style in italic form. The P3 style must use text indent of 1 centimeter, a background color of green and a foreground color of white. The 1 st and the 4 th paragraph must use P1, the 2 nd and 5 th must use P2 and the 3 rd and 6 th must use P3.	12	L3	CO3
	b.	Explain the external CSS files and Border properties.	8	L3	CO3

Module – 4

Q.7	a.	Create a table that correctly uses the caption , table , td, tr, th , tbody, tfoot, thread elements. Briefly discuss the roles of each of these elements.	12	L3	CO3
	b.	What are different ways of passing information via the URL.	8	L1	CO3

OR

Q.8	a.	Create a web page with following specification. The background must render using the color Cyan. There is one heading with blue color for the paragraphs with 3 different color message Color1 – silver – by using HSL value. Color 2 – fuchsia – use hexadecimal RGB value and Color 3 – bright orange – use a integer RGB value.	12	L3	CO3
	b.	Whys is the img element's alt attribute particularly important for end users who are visually impaired with an example.	8	L1	CO3

Module – 5

Q.9	a.	What are the three types of nodes in the DOM's node tree? Explain in detail.	10	L1	CO4
	b.	To implement a rollover with Javascript, what two event – handler attributes should use? Give suitable example.	10	L3	CO4

OR

Q.10	a.	Explain two approaches for event handling in Java Script with suitable code segments.	8	L2	CO4
	b.	Explain the advantages and disadvantages of client side scripting.	8	L2	CO4
	c.	Whats the difference between the text control's size attribute and its max length attribute?	4	L1	CO4



2303BPLCK105A57474

Visvesvaraya Technological University

Belagavi, Karnataka - 590 018.

Scheme & Solutions

Signature of Scrutinizer

Subject Title : Introduction to web programming Subject Code : BPLCK 105 A

Question Number	Solution	Marks Allocated
1 a)	<p>Syntax - 2M Explanation - 2M Example - 1M</p> <p><code><h1 class = "primary"> Example Heading </h1></code></p> <p>Diagram labels: - Tagname: <code><h1</code> - start tag: <code><</code> - attribute: <code>class = "primary"</code> - attribute value: <code>"primary"</code> - HTML Element: <code><h1 class = "primary"></code> - affected content: <code>Example Heading</code> - End tag: <code></h1></code></p>	5M
b	<p>8 rules each carry 1 Mark</p> <ul style="list-style-type: none">- HTML is not case sensitive, XHTML is- Attribute value may be case sensitive- (X)HTML is sensitive to a single white space character.- (X)HTML follows a content Model- Elements should have close Tag unless empty- Unused elements may minimize- element should Nest- attributes should be quoted	8M
c)	<p>listing - 2 M explanation 5M</p> <ul style="list-style-type: none">- XHTML: web page makeup XML style- HTML5	7M

Question Number	Solution	Marks Allocated
2a	<p>MisConceptions:</p> <ul style="list-style-type: none"> - WYSIWYG works on web - HTML is a Pgming lang. - XHTML is the only future - XHTML is Dead. <p>Myths:</p> <ul style="list-style-type: none"> - Traditional HTML is going away. - Someday standards will alleviate all our problems. - Hand-coding of HTML will continue indefinitely - (X)HTML is the most important tech. needed to create web pages 	7
b)	<p>explanation of each with example carry 1 Mark</p> <p>$6 \times 1 = 6 \text{ M}$</p>	6
c)	<p>Major themes with explanation - 4M</p> <ul style="list-style-type: none"> - Logical and physical markup - Standard Vs practice <p>Validation - 3M</p> <p>The process of checking whether a document conforms to the rules of the DTD</p> <p>http://validator.w3.org</p>	7
3a)	<p>each tag carry 2 marks</p> <p>$4 \times 2 = 8 \text{ mark}$</p>	8
b)	<p>listing elements 6 Marks</p> <p><code><base font></code>, <code><big></code>, <code><center></code> <code></code></p> <p><code><s></code> <code><strike></code> <code><tt></code> <code><u></code> - - -</p> <p>listing attributes with description 6marks</p> <p>align, align, hspace, link, rules, size - -</p>	12

Question Number	Solution	Marks Allocated
4a	web page creation with proper valid code and following as per the structure	12
b.	<pre> <Canvas id="Canvas" width="300" height="300"> </Canvas> Var Canvas = document.getElementById("Canvas"); var Context = Canvas.getContext("2d"); </pre>	8
5a	<p>Definition - 2M Cascading Style Sheets - describes how HTML elements are to be displayed</p> <p>benefits - 6M</p> <p>CSS Save time, Easy maintenance, Platform Independence, Global web standards</p>	8
b	<p>Selector are used to find the HTML elements to style - 2M</p> <p>Types - 10M</p> <p>Simple, class, Generic, id, Universal and Pseudo classes.</p>	12
6a)	<pre> <style> P.P1 {color:blue; margin-left:20px; margin-right:20px; background-color:rgb(255,255,153)} P.P2 { color:blue; font-size:18pt; font-family:Arial; font-style:italic; } </pre>	12

Question Number	Solution	Marks Allocated
	<pre> P. P3 { color : white; background-color : green; text-align : center; } </style> </head> <body> <p class="p1"> abc 1 </p> <p class="p2"> abc 2 </p> <p class="p3"> abc 3 </p> <p class="p1"> abc 4 </p> <p class="p2"> abc 5 </p> <p class="p3"> abc 6 </p> </body> </html> </pre>	
b	<p>external css files — 4 M</p> <p style="text-align: center;">file.css</p> <pre> <head> <link rel="stylesheet" href="file.css"> </head> </pre>	8
7a	<p>Border properties — 4 M</p> <p style="text-align: center;">background, color, style</p>	12
b	<p>Query parameters, path parameters, cookies, Fragments, HTTP headers.</p>	8

Question Number	Solution	Marks Allocated
8a	<pre>body { background-color: cyan; } .P1 { color: hsl(192, 25%, 75%); /*silver*/ } .P2 { color: #ff00ff /*fuchsia*/ } .P3 { color: rgb(255, 165, 0); /*brightorange*/ }</pre>	12
	<p>b) which will provide context of missing image. It is important to have alt text should be descriptive and meaningful to ensure all the users can access and understand - um example - um</p>	8
9a	<p>Element node $\langle div \rangle$ listing 1 mark. Text node $\langle p \rangle$ <u>hello</u> attribute node <u>src</u></p> <p>Explanation with example each carry 3 marks $3 \times 3 = 9$ mark.</p>	10

b) On mouse over } 5 Marks
On mouse out }
with explanation

10

Example - 5 Marks

```

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10a) Inline event handling - 4 Marks

```
<button onclick="myFunction()">  
Click me </button>
```

8M

Event listener registration - 4 Marks

```
<button id="myButton">Click me </button>
```

```
document.getElementById("myButton").  
addEventListener("click",  
myFunction);
```

b advantages - 4M

Better user experience, Reduce server load

Fast feedback, Increased functionality 8M

Disadvantages - 4M

Security concerns, Browser compatibility

limited server interaction, Accessibility issues.

C Size attribute Controls the visual appearance of the text control
Max length attribute Controls the maximum length of input allowed for the text control. 4