

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc.(IT) DEGREE PROGRAMME: LEVEL 03
DEPARTMENT OF COMPUTER SCIENCE
NO BOOK TEST 2(CAT 02) - 2023/2024
ITU3201 – WEB DEVELOPMENT
DURATION: One hour



Date: 02nd November, 2024

Time: 9.00 a.m. – 10.00 a.m.

Answer **ALL** Questions.

Registration No.

Write the answers on the question paper itself.

Section 1 - Write the most appropriate answer inside the cage provided for each question.

Question	Write the most appropriate Answer
1. What is an IP address? a) A hardware identifier for a network device b) A numerical label assigned to each device connected to a computer network c) A unique identifier for a website's content d) A protocol used to transfer data between devices	
2. What does DNS stand for in the context of web technology? a) Data Network Service b) Domain Name System c) Digital Name Service d) Domain Navigation System	
3. What is the primary function of a web server? a) To store and process email data b) To provide content to clients via HTTP or HTTPS protocols c) To manage domain name resolution d) To monitor network traffic	
4. Which of the following is NOT a commonly used web server software? a) Apache b) Nginx c) MySQL d) Microsoft IIS	

<p>5. Which HTML attribute is used to specify a unique identifier for an HTML element?</p> <p>a) class b) id c) name d) style</p>	
<p>6. Which of the following is a block-level element in HTML?</p> <p>a) b) <div> c) <a> d) </p>	
<p>7. What is wrong with the following HTML code?</p> <p><p>This is a paragraph.<p></p> <p>a) Missing closing </p> tag b) Incorrect use of <p> tag c) It should be <div> instead of <p> d) No error</p>	
<p>8. Which HTML tag is used to define a table row?</p> <p>a) <th> b) <tr> c) <td> d) <table></p>	
<p>9. Which of the following is an example of inline CSS?</p> <p>a) <style> p { color: red; } </style> b) <link rel="stylesheet" href="style.css"> c) <p style="color: red;">This is red text.</p> d) <head> <style> </style> </head></p>	
<p>10. Which CSS selector is used to apply styles to all <p> elements on a page?</p> <p>a) #p b) .p c) p d) *p</p>	

<p>11. Which of the following correctly describes the order of the CSS box model from the outside to the inside?</p> <p>a) Content → Padding → Margin → Border b) Margin → Border → Padding → Content c) Padding → Margin → Border → Content d) Border → Content → Padding → Margin</p>	
<p>12. Which of the following is a correct example of using a pseudo-class?</p> <p>a) <code>p:hover { color: red; }</code> b) <code>#id:click { color: blue; }</code> c) <code>div.class { color: green; }</code> d) <code>p.pseudo { color: yellow; }</code></p>	
<p>13. Which pseudo-class is used to style a hyperlink when it has not been visited yet?</p> <p>a) <code>:hover</code> b) <code>:active</code> c) <code>:visited</code> d) <code>:link</code></p>	
<p>14. What does the descendant combinator (a space between two selectors) do in CSS?</p> <p>a) It selects an element that is the direct child of another element b) It selects an element that is a descendant of another element, at any level c) It selects the element with a specific class d) It selects only sibling elements</p>	
<p>15. Which of the following is a type selector in CSS?</p> <p>a) <code>.class</code> b) <code>#id</code> c) <code>p</code> d) <code>*</code></p>	
<p>16. Which CSS property is used to create a flex container?</p> <p>a) <code>display: block</code> b) <code>display: grid</code> c) <code>display: inline-flex</code> d) <code>display: flex</code></p>	

<p>17. What is the primary purpose of media queries in CSS?</p> <ul style="list-style-type: none"> a) To create animations b) To apply styles based on the device's screen size or other characteristics c) To change the font size of text d) To add padding to elements 	
<p>18. Which of the following languages is most commonly used to create dynamic content on web pages?</p> <ul style="list-style-type: none"> a) HTML b) CSS c) JavaScript d) XML 	
<p>19. Which of the following is the most commonly used client-side scripting language?</p> <ul style="list-style-type: none"> a) PHP b) JavaScript c) Python d) Ruby 	
<p>20. What does document.getElementsByClassName() return in JavaScript?</p> <ul style="list-style-type: none"> a) A single element b) An array of elements c) A collection of elements with the specified class name d) A string with all the class names 	

Section 2 - Write the answer inside the cage provided for each question.

	<p>i What is the difference between IPv4 and IPv6?</p>
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ii. How does DNS contribute to the user experience when accessing websites?

iii. What is the difference between a web server and a web client?

iv. What are the main differences between HTTP and HTTPS?

v. How is a URL different from a domain name?

vi.	What is an HTML element, and how does it differ from an HTML attribute?
vii.	What is the difference between block-level and inline elements in HTML?
viii.	Explain how the "colspan" attribute works in an HTML table.
ix.	Draw output of the below sample HTML code <pre><table border="1"> <tr> <th colspan="2">Header</th> </tr> <tr> <td>Cell 1</td> <td>Cell 2</td> </tr> </table></pre>

x.	What is the difference between inline, internal, and external CSS?
xi.	Draw output of the below sample HTML code <pre><table border="1"> <tr> <td rowspan="2">Rowspan Cell</td> <td>Cell 1</td> </tr> <tr> <td>Cell 2</td> </tr> </table></pre>
xii.	What is the difference between styling an element with a class and an ID in CSS?

xiv.	What is the main difference between CSS Grid and Flexbox?
xv.	What is responsive web design, and why is it important?
xvi.	What is dynamic content in a web page, and how is it different from static content?

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