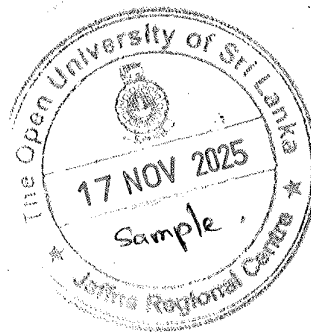


THE OPEN UNIVERSITY OF SRI LANKA  
B.Sc.(IT) DEGREE PROGRAMME – 2024/2025  
DEPARTMENT OF COMPUTER SCIENCE  
**ITU3201 – WEB DEVELOPMENT**  
**FINAL EXAMINATION**  
DURATION: **TWO HOURS ONLY** (2 HOURS)



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**Date: 17.11.2025**

**Time: 01.30 p.m. – 03.30 p.m.**

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ANSWER ONLY **FOUR (04) QUESTIONS**. EACH QUESTION CARRY EQUAL MARKS

**QUESTION 01**

- 1.1. Define a computer network and describe two key advantages of using one. [05 Marks]
- 1.2. Explain the term IP Address and state differences between IPv4 and IPv6. [05 Marks]
- 1.3. What is the function of the Domain Name System (DNS)? [05 Marks]
- 1.4. What are the differences between a Web Server and a Web Browser ? [05 Marks]
- 1.5. Explain the concept of HTTP and HTTPS. [05 Marks]

**QUESTION 02**

- 2.1. What role does HTML play in web design? [05 Marks]
- 2.2. State differences between HTML tags and HTML elements. [05 Marks]
- 2.3. What are HTML attributes? Provide two examples. [05 Marks]
- 2.4. Explain the purpose of the class and id attributes. [05 Marks]
- 2.5. List two differences between inline elements and block elements. [05 Marks]

**QUESTION 03**

- 3.1. What are the main purposes of using CSS in web design? [05 Marks]
- 3.2. What is internal CSS and when should it be used? [05 Marks]
- 3.3. Write short notes on the following CSS selectors:  
(i) Element Selector (ii) Class Selector (iii) ID Selector [05 Marks]
- 3.4. State two advantages of using external CSS. [05 Marks]
- 3.5. Give examples of styling hyperlinks in different states [05 Marks]

**QUESTION 04**

- 4.1. What is JavaScript and why is it used in web pages? [05 Marks]
- 4.2. Describe the difference between internal and external JavaScript? [05 Marks]
- 4.3. How can JavaScript use the id attribute to modify HTML content? Give an example. [05 Marks]
- 4.4. Mention three common uses of JavaScript in modern websites. [05 Marks]
- 4.5. Briefly explain how AJAX enhances user experience. [05 Marks]

**QUESTION 05**

- 5.1. Define server-side scripting and give two examples of such languages. [05 Marks]
- 5.2. Differentiate between static and dynamic web pages. [05 Marks]
- 5.3. Explain the role of a database in a web application. [05 Marks]
- 5.4. What are the differences between client-side and server-side scripting languages? [05 Marks]
- 5.5. List two common challenges when integrating databases in web applications. [05 Marks]

**QUESTION 06**

- 6.1. How do you add a comment in HTML? [05 Marks]
- 6.2. Why are comments useful in coding? [05 Marks]
- 6.3. What is web hosting? [05 Marks]
- 6.4. State the differences between VPS hosting and Dedicated hosting. [05 Marks]
- 6.5. What is a domain name and how does it relate to a website? [05 Marks]

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