

Only for 2021 to
2024 AD admitted
Students

TRIBHUVAN UNIVERSITY
FACULTY OF MANAGEMENT
Office of the Dean
May 2026

Full Marks: 60
Pass Marks: 30
Time: 3 Hrs.

BIM / Third Semester / IT 237: Web Technology I

Candidates are required to answer the questions in their own words as far as practicable.

Group "A"

Brief Answer Questions:

[10 × 1 = 10]

1. Distinguish between web page and website.
2. List any two features of HTML5.
3. List the types of CSS.
4. Why do we need form in HTML?
5. Define namespace in XML.
6. When do you prefer static web site?
7. What are the uses of meta tag?
8. How do you comment the code in JavaScript?
9. What is Bootstrap?
10. Why do we need responsive web design?

Group "B"

Short Answer Questions: (Attempt any FIVE Questions)

[5 × 3 = 15]

11. What is URL? Explain its components.
12. Differentiate between web 2.0 and web 3.0.
13. What is HTTP? Explain request and response message.
14. Discuss the impactful use of AJAX in web development.
15. Explain JavaScript data types with examples.
16. Discuss the elements of form tag in HTML.

Group "C"

Long Answer Questions: (Attempt any THREE Questions)

[3 × 5 = 15]

17. Write a JavaScript function that takes an array and returns the largest element.
18. Write DTD for a Sony Album XML containing singer, genre, length, price.
19. Explain CSS selectors (class, id, attribute, pseudo-class) with examples.
20. Create a HTML table given below.

Name		Roll	Class	
First Name	Last Name		Grade	Section

Group “D”

Comprehensive Answer / Case / Situation Analysis Questions:

[2 × 10 = 20]

21. (a) Explain Browser Object Model (BOM) with example.
(b) Write HTML and CSS code to demonstrate CSS box model.
22. A website wants to improve user security by checking the strength of passwords entered by users during registration. The system should guide users to create strong passwords.

You are required to:

- a. Design a password input field using HTML.
- b. Write JavaScript to validate the password such that:
Length should be at least 8 characters
It must contain at least one uppercase letter and one digit
- c. Display password strength as “Weak” if it fails the validation.
- d. Why strong passwords are important for web security? Explain.
- e. Write one security best practice for password protection.

[2+3+2+2+1]

