

Only for 2021 to
2023 AD admitted
Students

TRIBHUVAN UNIVERSITY
FACULTY OF MANAGEMENT
Office of the Dean
May 2025

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. Define domain name.
2. Why HTML is called mark-up language?
3. List the types of CSS.
4. Define cookies.
5. Define namespace.
6. What is URL?
7. List the use of <div> tag.
8. Distinguish between ID and class selector.
9. What is JSON?
10. What is the use of XML Namespace?

Group “B”

Short Answer Questions: (Attempt any FIVE Questions)

[5×3=15]

11. What is a function in JavaScript and how is it defined? Give an example of function declaration.
12. Describe about responsive web design frameworks.
13. Distinguish between 1-tier, 2-tier and 3-tier architecture.
14. Write source code to generate following layout using table.

| S.N | Name | Phone | |
|-----|------|-----------|------------|
| | | Home | Office |
| 1 | Ram | 014423659 | 9876543210 |
| 2 | Sita | 014444444 | 9789065432 |

15. Explain Math Object with some its method.
16. Explain Browser Object Model with example.

Group “C”

Long Answer Questions: (Attempt any THREE Questions)

[3×5=15]

17. Define JQuery. Explain different types of JQuery selectors with example.

18. Write a JavaScript function that takes two parameter, one array and other search value, if search value is present in the array display “Value is in array”, if not found display “value not found in array”.
19. Write source code to display following layout using div and make sure each div has the background color specified in the box.

| | | |
|--------|--------|--------|
| Red | Yellow | Purple |
| Orange | | |
| Red | Yellow | |

20. Describe Xpath. Write DTD for following XML.

```

<dvdlibrary>
  <movie>
    <title>XYZ</title>
    <actor>ABC</actor>
    <category type="thriller">Thriller comedy</category>
  </movie>
</dvdlibrary>

```

Group “D”

Comprehensive Answer / Case / Situation Analysis Questions:

[2×10=20]

21. Create an HTML form with fields name, email, country, gender. Make name and email textbox type, country select box and gender radio button. Now write a JavaScript code to validate form with following details to validate form with following details.
- a. Name must contain only alphabets and space and must be 8 character.
 - b. Email should be valid.
 - c. Gender must be checked.
 - d. At least one country must be selected.
22. (a) What is Ajax? Explain how it works in detail.
- (b) Write HTML and CSS code to display the concept of media query.

