

Only for 2021
to 2023 AD
admitted
Students

TRIBHUVAN UNIVERSITY
FACULTY OF MANAGEMENT
Office of the Dean
December 2025

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

BIM / Fourth Semester / IT 239: Web Technology II

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

Group "A"

Brief Answer Questions:

[10 × 1 = 10]

1. Differentiate between for and for each.
2. In the statement $a = 2$, a is variable or constant?
3. How do you check if a value exists in an array?
4. How does the break statement work in for loop?
5. Why do we need abstract class?
6. List the purpose of $\$_SERVER$.
7. Define HTTP Authentication.
8. What function is used to read a file line by line?
9. What is the purpose of regular expression?
10. Why `die()` is used in PHP?

Group "B"

Short Answer Questions: (Attempt any FIVE Questions)

[5 × 3 = 15]

11. List out some differences between client side and server side scripting.
12. Can you use for loop to access element of associative array? Justify.
13. Describe the purpose of constructors and destructors in PHP.
14. Discuss the reasons why $\$this$ variable cannot be used inside static method?
15. Explain any one PHP server side framework.
16. How do you use `preg-match()` to validate if a string contains only letter and spaces?

Group "C"

Long Answer Questions: (Attempt any THREE Questions)

[3 × 5 = 15]

17. Distinguish between error and exception. Write a program to throw an exception if the user give the even integer.
18. A file named "employee.txt" contains the list of employees' name. Write a program to read the content of the file and displays all employees whose name starts with 'A'.
19. What is the role of cookies in PHP? How can you set, retrieve, and delete a cookie?

20. Explain the importance of prepared statements. Write a PHP program to insert the student info (id, roll no., name, marks, and remarks) into a table named 'marks'. Make all required Assumptions regarding database.

Group "D"

Comprehensive Answer / Case / Situation Analysis Questions:

[2 × 10 = 20]

- ✓ 21. Which PHP framework is best for rapid development projects? Give reasons. Illustrate with an example to show the multiple inheritance.
- ✓ 22. Write a PHP program to create a registration form with the following requirements.
- a. Customer Name(Textbox): required, should be at least 3 characters long
 - b. Mobile No(Textbox): required
 - c. Email(Textbox): required
 - d. Country(Dropdown): required
 - e. Interests(Radio): required and should contain at least one
 - f. Feedback (Textarea): optional.

The form contains a Submit Button, which on click, performs server side validation and displays the form data if the submitted data is valid and displays the validation error on invalid data.

