 **KIST COLLEGE OF MANAGEMENT**

**Full Marks: 60**

**Pass Marks: 36**

**Time: 3 hrs.**

**Affiliated to Tribhuvan University**

**Kamalpokhari, Kathmandu**

**March, 2024**

**Pre - Board Examination**

**BIM / Fourth Semester / IT 239: Web Technology II**

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

**Group – A**

**Brief Answer Questions: [10 x 1 = 10]**

* 1. Differentiate between include and require in PHP.
  2. Write any four superglobals that are used in PHP
  3. What is the use of isset() function in PHP?
  4. What is a destructor? How do you construct destructor in PHP?
  5. Consider a class named Student that has private fields name of type string and rollNumber of type int. Write PHP code for creating a parameterized constructor for this class.
  6. What is the use of namespace in PHP?
  7. What is the use of mysqli\_connect() function? What parameters are required for this function?
  8. Differentiate between authentication and authorization.
  9. What is a web framework? Explain with example
  10. What do you mean by ORM? Explain

**Group – B**

**Short Answer Questions (Attempt Any Five Questions): [5 x 3 = 15]**

* 1. Write a PHP script to find the factorial of a number and display it. Consider the number on your own.
  2. Write a PHP script to display the smallest number in an array.
  3. What do you mean by access modifiers? Explain.
  4. Write a PHP script to create a database named **bimfourth**.
  5. How is cookie set using PHP? Explain with example.
  6. Explain MVC pattern.

**Group – C**

**Long Answer Questions (Attempt Any Three Questions): [3 x 5 = 15]**

* 1. Write a syntax for for each loop in PHP with an example. Create a form to read two numbers and an operator(+,-,/,\*) from users. Write a PHP script to perform operations accordingly and display result using switch case
  2. Differentiate between Abstract Class and Interface. Write a PHP script to illustrate the concept of Hierarchical Inheritance.
  3. Consider a database named BIMKist that has a table named user(uid, name, address, email password). Illustrate the concept of login using PHP creating a login form.
  4. What is session and how is it different from cookie? How can you set, get and remove session in PHP? Explain with example.

**Group – D**

**Comprehensive Answer Questions: [2 x 10 = 20]**

* 1. a. What is Laravel? Explain its key features.

b. Write short notes on:

1. Routing in Laravel
2. Blade Template
3. Migration
   1. a. What is Exception Handling and how it can be achieved? Write a PHP code to illustrate it.

b. Consider a database named BIMKist that has a table named user(uid, name, address, email password).Write a PHP script to update the name of user with uid=5 to “Ram Bahadur”.

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