**NAGARJUNA COLLEGE OF INFORMATION TECHNOLOGY**

**Full Marks: 60**

**Pass Marks: 30**

**Time: 3 hrs.**

**Shankhamul -09, Lalitpur**

**SET - A**

**Pre-Board Examination -2081**

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

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

**Group “A”**

**Brief Answer Questions: [10×1=10]**

1. What the difference is between require and include in PHP?
2. How do you concatenate two strings in PHP?
3. Which PHP function is used to merge two or more arrays?
4. What does the isset() function do in PHP?
5. What is the purpose of the "protected" access modifier? Give example.
6. What function is used to execute an SQL query in PHP?
7. What is the purpose of the try-catch block in PHP?
8. How do you use regular expressions in PHP? Provide an example function.
9. What is the purpose of a constructor in a PHP class?
10. Name two popular server-side web framework for PHP.

**Group “B”**

**Short Answers Questions**

**Attempt any *five* questions [5×3=15]**

1. Explain the use of control statements in PHP. How do if, switch, and for statements work? Provide an example of each.
2. Explain the concept of strings in PHP. How do you declare and manipulate strings? Provide examples of any three string functions commonly used in PHP.
3. Explain the concept of inheritance in object-oriented programming in PHP. How do you create a child class that inherits from a parent class? Provide an example.
4. Describe the process of file handling in PHP. How do you read data from a file and write data to a file? Provide examples using fopen() and fwrite() functions
5. What is server-side frameworks, and why are they used in web development? Discuss the features of a popular PHP framework.
6. Describe the process of setting cookies in PHP. How do you set cookies with specific attributes such as expiration time and domain?

**Group “C”**

**Long Answers Questions**

**Attempt any *three* questions [3×5=15]**

1. Discuss the concept of functions in PHP, covering aspects such as defining functions, passing arguments to functions, and returning values from functions along with relevant example.
2. Explain the process of defining and initializing an associative array in PHP. Write a PHP script that defines an associative array representing the information of a person (e.g., name, age, email). Then, print each key-value pair of the array.
3. Explain the process of reading a text file in PHP. Write a PHP script that reads the contents of a text file named "student.txt" and displays its content on the webpage.
4. Write a program to take first name, address gender, and phone number using HTML forms and display the result using PHP script.

**Group “D”**

**Comprehensive Answer Questions:**

**Attempt Any *two* questions [210=20]**

1. Discuss the use of interfaces and abstract classes in Object-Oriented Programming (OOP) in PHP.

Write a PHP interface called 'Resizable' with a method 'resize()'. Implement the 'Resizable' interface

in a class called 'Square' and add functionality to resize the square.

1. Design a PHP web application that allows users to register their profile. Make all the necessary validations required while collecting data.
2. What do you mean by web framework? Discuss the advantages of web framework. Describe any one any one web framework that you know.

***The End***

**NAGARJUNA COLLEGE OF INFORMATION TECHNOLOGY**

**Full Marks: 60**

**Pass Marks: 30**

**Time: 3 hrs.**

**Shankhamul -09, Lalitpur**

**SET - B**

**Pre-Board Examination -2081**

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

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

**Group “A”**

**Brief Answer Questions: [10×1=10]**

1. What are the various methods for outputting data in PHP??
2. What are PHP superglobals? List some commonly used superglobals?
3. How do you iterate through an array using a foreach loop?
4. What is the purpose of the "public" access modifier? Give example.
5. What is the primary purpose of an abstract class in PHP? .
6. Which PHP function is commonly used to read the contents of a file?
7. Which PHP function is commonly used to establish a connection with a MySQL database? Write syntax.
8. Explain the process of destroying a session in PHP.
9. Which PHP function is used to perform a regular expression match against a string? Write syntax.
10. How can you include an external file in PHP?

**Group “B”**

**Short Answers Questions**

**Attempt any *five* questions [5×3=15]**

1. Describe the basic syntax of PHP, including how to define variables, constants, and comments.
2. Explain the concept of strings in PHP. How do you declare and manipulate strings? Provide examples of any three string functions commonly used in PHP.
3. Explain the concept of a class in PHP. How do you define a class, and what does it encapsulate? Provide an example of a simple PHP class definition.
4. Discuss the process of retrieving and processing form data in PHP. How do you access form data submitted via POST or GET methods?
5. Discuss the steps involved in creating a connection to a database using PHP. What functions or methods are commonly used to establish a database connection?
6. Describe the process of setting cookies in PHP. How do you set cookies with specific attributes such as expiration time and domain?

**Group “C”**

**Long Answers Questions**

**Attempt any three questions [3×5=15]**

1. Discuss the concept of functions in PHP, covering aspects such as defining functions, passing arguments to functions, and returning values from functions along with relevant example.
2. Explain the process of defining and initializing an associative array in PHP. Write a PHP script that defines an associative array representing the information of a person (e.g., name, age, email). Then, print each key-value pair of the array.
3. Explain the process of reading a text file in PHP. Write a PHP script that reads the contents of a text file named "student.txt" and displays its content on the webpage.
4. Write a brief note on PHP Server-Side Web Framework.

**Group “D”**

**Comprehensive Answer Questions:**

**Attempt Any two questions [2×10=20]**

1. Discuss the use of interfaces and abstract classes in Object-Oriented Programming (OOP) in PHP. Write a PHP abstract class called 'Animal' with abstract methods like 'eat()' and 'makeSound()'. Create subclasses like 'Dog', 'Cat', and 'Bird' that implement these methods.
2. Develop a PHP web application that allows users to create and read records from a database table using HTML forms for input.
3. What do you mean by web framework? Discuss the advantages of web framework. Describe any one any one web framework that you know.

***The End***