

**Part - II
Short Answers**

1. Define HTML form controls.

HTML form controls are to collect data from users. In the web development, user access website or web pages from remote client machine and feed the data to server.

2. Define for Form Handling method in PHP.

Post Method: The input data sent to the server with POST method is stored in the request body of the client's HTTP request.

Get Method: The input data sent to the server with POST method via URL address is known as query string. All input data are visible by user after they clicks the submit button.

3. What is Form Validation in PHP?

Validation of HTML form data is important to protect your form from hackers and spammers

4. List out HTML control to support PHP language.

Type of HTML form controlling:

● Text inputs ● Buttons ● Checkbox ● Radio box ● File Select ● Form Tag

5. Write Syntax of Text box in HTML.

Syntax: `<input type="text" size="VALUE" >` Help to enter single line of text with Specified characters

6. Define File handling in PHP.

File handling is an important part of any web application. You often need to open and process a file for different tasks. There are: PHP Open a File, PHP Read a File, PHP Close a File, PHP Write a File, PHP Appending a File and PHP uploading a File.

7. Define Browse button in HTML.

In the `<Input>` tag mention `type="file"` attribute shows the input field as a file-select control, with a "Browse" button next to the input control.

8. Write Syntax of Browse button in HTML.

Syntax:

Select a file: `<input type="file" name="myFile">`

9. Compare Text box and Text Area.

Text box	Text Area
Help to enter single line of text	A text area can hold an unlimited number of characters, and the text renders in a fixed-width font.
The size of a text area can be specified by <code>size="40"</code> attribute	The size of a text area can be specified by the <code>cols</code> and <code>rows</code> attributes.

10. Usage of File open function.

`fopen()` is a system function available in PHP. This function helps to open a file in the server. It contains two parameters one for the file and the other one specifies in which mode the file should be opened (Read/Write).

**Part - III
Explain in Brief Answer**

1. Write the features Form Handling.

When the user keying the input data in HTML controls and clicks the submit button the request will be generated and reaches a PHP file which is mentioned in the FORM tag under the Action attribute. All input values are synchronized and sent to the server via POST method or GET method.

Method is an attribute form tag in HTML.

2. Write the purpose Get method and Post method.

Once the data reaches the server, two PHP variables such as `$_POST` and `$_GET` collects the data and prepares the response accordingly

Post Method: The input data sent to the server with POST method is stored in the request body of the client's HTTP request.

Get Method: The input data sent to the server with POST method via URL address is known as query string. All input data are visible by user after they clicks the submit button.

3. Differentiate Get and Post Method.

GET	POST
It is default method	It is not a default method
It is designed to GET data from the server	It is designed to SEND data to the server
Data type: GET request always submits data as text.	Data type: POST request has no restriction
SEARCH is the best example for GET request	LOGIN is the best example for POST request
GET request has a limitation on its length (255 char)	POST request has no major limitation
GET request is sent via URL	POST request is sent via HTTP request body

4. Write short notes on File handling.

fopen() is a system function available in PHP. This function helps to open a file in the server. It contains two parameters one for the file and the other one specifies in which mode the file should be opened (Read/Write).

Syntax:

```
$file_Object= fopen("FileName", "Read/WriteMode") or die("Error Message!");
```

Example:

```
<?php
$myfile = fopen("Student.txt", "r") or die("Unable to open file!");
?>
```

5. Write short notes on File handling functions.

fopen() is a system function available in PHP. This function helps to open a file in the server.

It contains two parameters one for the file and the other one specifies in which mode the file should be opened (Read/Write).

The fread() function reads from an open file. The file object comes from fopen function.

The fwrite() function is used to write to a file.

The fclose() function is used to close an opened file. The file object comes from fopen function.

The file_put_contents() function is used to Append to a file.

PHP uploading a File - ensure that PHP is configured to allow file uploads.

Explain in detail (5-Marks)

1. Explain Form Handling methods.

- HTML form controls are to collect data from users. In the web development, user access website
- or web pages from remote client machine and feed the data to server.
- These data are collected via HTML form controls like textbox, dropdown box and radio button etc., and sent to server using server side programming like PHP.
- The user keying the input data in HTML controls and clicks the submit button the request will be generated and reaches a PHP file which is mentioned in the FORM tag under the Action attribute.
- All input values are synchronized and sent to the server via POST method or GET method. Method is an attribute form tag in HTML. Once the data reaches the server, two PHP variables such as \$_POST and \$_GET collects the data and prepares the response accordingly.

Post Method: The input data sent to the server with POST method is stored in the request body of the client's HTTP request.

Get Method: The input data sent to the server with POST method via URL address is known as query string.

All input data are visible by user after they clicks the submit button.

- HTML File contains two Text Box (Name and Email), One Button and one form tag. The remote server PHP file (welcome.php) is mentioned in form tag under the Action Attribute.
- In "Welcome.Php" file, PHP variables such as \$_POST and \$_GET collects the data and prepares the response accordingly.
- Eventually the user will receive the output response in the client machine's browser screen.

2. Discuss in detail about HTML form controls.

The following control types are available in HTML form controlling:

HTML form controls	Description
Text inputs	Text inputs contain textbox and text area controls.
Buttons	Buttons may contain Submit button, Reset button and Cancel Button.
Checkbox	Checkbox is the important feature which selects more than one value from the HTML form.
Radio box	Radio box is similar to checkbox but one value can be chosen at a time.
File Select	File select is the best feature to select one file from the local machine to server machine at a time.
Form Tag	Form tag is used to mention a method (POST or GET) and control the entire form controls in the HTML document.

Forms and files

Forms and files are most important concepts that the PHP web development processes.

3. Explain the process File handling.

PHP Open a File

fopen() is a system function available in PHP. This function helps to open a file in the server.

It contains two parameters one for the file and the other one specifies in which mode the file should be opened (Read/Write).

Syntax: \$file_Object= fopen("FileName", "Read/WriteMode") or die("Error Message!");	Example: <?php \$myfile = fopen("Student.txt", "r") or die("Unable
---	---

	to open file!"); ?>
--	------------------------

PHP Read a File:

The fread() function reads from an open file. The file object comes from fopen function.

Syntax:

```
fread($file_Object,filesize("FileName"));
```

Example:

```
<?php
fread($myfile,filesize("Student.txt"));
?>
```

PHP write a File:

The fwrite() function is used to write to a file.

Syntax:

```
fwrite($myfile, $txt);
```

PHP Close a File:

The fclose() function is used to close an opened file. The file object comes from fopen function.

Syntax:

```
fclose($file_Object);
```

Example:

```
<?php
$myfile = fopen("student.txt", "r");
fclose($myfile);
?>
```

PHP Appending a File

The file_put_contents() function is used to Append to a file.

Syntax:

```
file_put_contents(file,data,mode,context)
- 4 parameters
```

Example:

```
<?php
$txt = "Student id ";
$myfile = file_put_contents('logs.txt', $txt.
PHP_EOL , FILE_APPEND | LOCK_EX);
?>
```

File Upload:

File upload is the best feature to select one file from the local machine to server machine.

PHP uploading a File - ensure that PHP is configured to allow file uploads

Read Line by Line:

The fgets() function is used to read a single line from a file, and after a call to this function, the file pointer has moved to the next line.

4. Explain concepts of HTTP Uploading process.

A PHP script can be used with a HTML form to allow users to upload files to the server.

File upload is the best feature to select one file from the local machine to server machine.

Form tag is used to mention a method as POST or GET and encrypt attribute mentioned as "multipart/ form-data".

In the <Input> tag mention type="file" attribute shows the input field as a file-select control, with a "Browse" button next to the input control. The form above sends data to a file called "Student_photo_upload.php"

Explanation of Code

Once the form is submitted information about the uploaded file can be accessed via PHP super global array called \$_FILES.

All the details are checked thoroughly and the errors are saved in an array variable. The file finally moves under the image directory if the array error variable is empty.

like this:

- \$_FILES["photo"]["name"] — This array value specifies the original name of the file, including the file extension. It doesn't include the file path.
- \$_FILES["photo"]["type"] — This array value specifies the MIME type of the file.
- \$_FILES["photo"]["size"] — This array value specifies the file size, in bytes.
- \$_FILES["photo"]["tmp_name"] — This array value specifies the temporary name including full path that is assigned to the file once it has been uploaded to the server.
- \$_FILES["photo"]["error"] — This array value specifies error or status code associated with the file upload, e.g. it will be 0, if there is no error.

5. Explain in detail of File handling functions.

REFER DETAILS Q.NO:3

How the PHP Form are Validation?

Validation is a process of checking the input data submitted by the user from client machine. There are two types of validation available in PHP. They are as follows,

Client-Side Validation: The input data validations are performed on the client machine's web browsers using client side scripts like Java script or adding "required" attribute in HTML input tags.

Server Side Validation: After the submission of data, validations are performed on the server side using the programming like PHP, ASP or JSP etc. available in the server machine.

Validation rules for HTML input field

- Name (Text Input) : Should require letters and white-spaces
- Email (Text Input) : Should require @ and .strings
- Website (Text Input) : Should require a valid URL
- Radio : Must be selectable minimum one value
- Check Box : Must be checkable minimum one value
- Drop Down menu : Must be selectable minimum one value

What are fileOpen Operation in PHP?

The file may be opened in one of the following modes	
r	Read-only. Starts at the beginning of the file
r+	Read/Write. Starts at the beginning of the file
w	Write only. Opens and clears the contents of the file; or creates a new file if it doesn't exist
w+	Read/Write. Opens and clears the contents of the file; or creates a new file if it doesn't exist
a	Append. Opens and writes to the end of the file or creates a new file if it doesn't exist
a+	Read/Append. Preserves file content by writing to the end of the file
x	Write only. Creates a new file. Returns FALSE and an error if the file already exists
x+	Read/Write. Creates a new file. Returns FALSE and an error if the file already exists

What the parameters used Appending a File?

Parameter	Description
File	Required. Specifies the file to write to. If the file does not exist, this function will create one
data	Required. The data to write to the file. Can be a string, an array or a data stream
mode	Optional. Specifies how to open/write to the file. Possible values: FILE_USE_INCLUDE_PATH FILE_APPEND LOCK_EX
context	Optional. Specifies the context of the file handle. Context is a set of options that can modify the behaviour of a stream

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