A9.2-R5.1 : WEB APPLICATION USING PHP

DURATION : 03 Hours   **MAXIMUM MARKS : 100**

OMR Sheet No. : ☐☐☐☐☐

Roll No. : ☐☐☐☐☐☐   **Answer Sheet No. :** ☐☐☐☐☐☐

Name of Candidate : _____ **;** **Signature of Candidate :** _____

INSTRUCTIONS FOR CANDIDATES :

- Carefully read the instructions given on Question Paper, OMR Sheet and Answer Sheet.

- Question Paper is in English language. Candidate has to answer in English language only.

- There are **TWO PARTS** in this Module/Paper. **PART ONE** contains **FOUR** questions and **PART TWO** contains **FIVE** questions.

- **PART ONE** is Objective type and carries **40** Marks. **PART TWO** is Subjective type and carries **60** Marks.

- **PART ONE** is to be answered in the **OMR ANSWER SHEET** only, supplied with the question paper, as per the instructions contained therein. **PART ONE** is **NOT** to be answered in the answer book for **PART TWO**.

- Maximum time allotted for **PART ONE** is **ONE HOUR**. Answer book for **PART TWO** will be supplied at the table when the Answer Sheet for **PART ONE** is returned. However, Candidates who complete **PART ONE** earlier than one hour, can collect the answer book for **PART TWO** immediately after handing over the Answer Sheet for **PART ONE** to the Invigilator.

- **Candidate cannot leave the examination hall/room without signing on the attendance sheet and handing over his/her Answer Sheet to the invigilator. Failing in doing so, will amount to disqualification of Candidate in this Module/Paper.**

- After receiving the instruction to open the booklet and before answering the questions, the candidate should ensure that the Question Booklet is complete in all respects.

DO NOT OPEN THE QUESTION BOOKLET UNTIL YOU ARE TOLD TO DO SO.

PART ONE

(Answer all questions : each question carries ONE marks)

1. **Each question below gives a multiple choice of answers. Choose the most appropriate one and enter in the "OMR" answer sheet supplied with the question paper, following instructions therein.**

(1x10)

1.1 Which of the following is a key characteristic of open source technologies ?
   (A) Proprietary licensing
   (B) Closed source code
   (C) Limited community involvement
   (D) Transparent source code

1.2 What is the core component of the Linux operating system responsible for managing system resources and providing a bridge between hardware and user applications ?
   (A) Kernel
   (B) Shell
   (C) GUI
   (D) Compiler

1.3 In HTML, which attribute is used to specify the URL or destination of a hyperlink ?
   (A) link
   (B) href
   (C) src
   (D) url

1.4 In JavaScript, what is the term used for a function that is created by the programmer and is not built-in, allowing the programmer to define custom functionality ?
   (A) Native function
   (B) Custom function
   (C) User Defined Function
   (D) Prototype function

1.5 What will be the correct output of following code-

```php
<?php

$ar=array("X","Rose","Rose","X","Lotus");

print_r(array_count_values($ar));

?>
```

   (A) Array (5)

   (B) Array ([X] => 2 [Rose] => 2 [Lotus] =>1)

   (C) Array ([X] ->[Rose] ->[Lotus])

   (D) None of them

1.6 Which query can replace the given query ?

   Select stu_name, stu_course_id FROM teacher, teaches WHERE teacher_ID=teaches_ID

   (A) Select stu_name,stu_course_id from teacher, teaches where teacher_ID =stu_course_id;

   (B) Select stu_name, stu_course_id from teacher natural join teaches;

   (C) Select stu_name, stu_course_id from teacher;

   (D) Select course_id from teacher join teaches;

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1.7 In web development, what is a key difference between session-based and cookie-based login systems ?

(A) Session-based login stores user information on the client side, while cookie-based login stores it on the server side.

(B) Session-based login uses temporary files to store user data, while cookie-based login uses encrypted tokens.

(C) Session-based login relies on server sessions to store user information, while cookie-based login stores data on the client side as small text files.

(D) Session-based login requires users to enter their credentials every time, while cookie-based login allows for automatic authentication based on stored information.

1.8 In HTML, which attribute specifies how to send the form-data to the server ?

(A) action

(B) method

(C) target

(D) enctype

1.9 How to organise the objects in HTML DOM ?

(A) Class-wiseb

(B) LIFO

(C) Hierarchy

(D) FIFO

1.10 Which part of the HTML consists of metadata ?

(A) head tag

(B) title tag

(C) html tag

(D) body tag

2. **Each statement below is either TRUE or FALSE. Choose the most appropriate one and enter your choice in the "OMR" answer sheet supplied with the question paper, following instructions therein.**

(1x10)

2.1 PHP is not an open source technology.

2.2 PHP is a both client-side and server-side scripting language.

2.3 The correct way to define a variable in PHP is $variable_name = value;.

2.4 The <group> CSS selectors are used to specify a group of elements.

2.5 The bootstrap CSS framework is used to create a responsive design.

2.6 Update statement is not used in Triggers in MySQL.

2.7 -s option of the kill command sends the given signal name to the specified process.

2.8 SOAP stands for Simple Object Access Protocol. It is a XML-based protocol for accessing web services.

2.9 HTML lists are of four types.

2.10 Cross-site scripting (XSS) is a kind of attack where an attacker injects malicious executable scripts into the code of a trusted application or website.

3. **Match words and phrases in column X with the closest related meaning / word(s) / phrase(s) in column Y. Enter your selection in the "OMR" answer sheet supplied with the question paper, following instructions therein.** (1x10)

	X		Y
3.1	$_POST	A	web hacking
3.2	vlink	B	*displays database connection error*
3.3	Apache Server	C	*dynamic parameters*
3.4	Request Object	D	*links file vertically*
3.5	require	E	embed PHP code from another file
3.6	fopen()	F	*Open a database connection*
3.7	mysqli_connect()	G	*Opens a file*
3.8	sql injection	H	*Opens a library file*
3.9	mysqli_connect_error()	I	Color of a visited link in a Document
3.10	Bind parameters	J	Collects data after submitting an HTML form
		K	PHP super global variable
		L	*inserts a sql query in php code*
		M	Open Source

4. **Each statement below has a blank space to fit one of the word(s) or phrase(s) in the list below. Choose the most appropriate option, enter your choice in the "OMR" answer sheet supplied with the question paper, following instructions therein.**

(1x10)

A	enctype	**B**	<OL>.	**C**	WampServer
D	three	**E**	two	**F**	ordered
G	cookie	**H**	sql_query	**I**	jQuery
J	mysql_query	**K**	var_dump()	**L**	Apache Server
M	ORDER BY				

4.1 _____ is a Web development platform on Windows that allows you to create dynamic Web applications.

4.2 The tag to create ordered list in HTML is _____.

4.3 The _____ keyword sorts the records in ascending order.

4.4 The function to open a file in PHP takes max _____ parameters.

4.5 _____ is a lightweight, "write less, do more", JavaScript library.

4.6 Exception handling in PHP can be managed by use of _____ keywords.

4.7 The _____ attribute mentions the how form data will be encoded.

4.8 The small piece of text file that stores at client end is _____.

4.9 _____ function is used to call a MySQL stored procedure from a PHP page.

4.10 The _____ function that provides information about one or more variables.

PART TWO

(Attempt any FOUR Questions)

5. (a) Explain the significance of following with respect to the web application development - AJAX, JQuery, Web Services,

(b) What are CRUD operations in MySQL? Explain their significance with proper example.

(9+6)

6. (a) Explain the significance of various superglobal variables in PHP. Explain the role of $_POST and $_GET with example in context of PHP.

(b) Explain the usage of following functions with example in PHP- strpos() , str_pad() , sleep(), phpinfo() , date()

(10+5)

7. (a) Write down the steps to connect to a database in PHP.

(b) What are classes in PHP ? How can we define classes in PHP ? Explain with example.

(c) What are associative arrays in PHP ? Explain its significance with example.

(5+4+6)

8. (a) Differentiate between client side and server side validation. How can we implement client side validation using javascript, explain with example?

(b) What are the different types of CSS used in HTML. Explain their usage with example.

(c) Differentiate between JQuery Selectors and JQuery Filters with example.

(5+5+5)

9. (a) What are the differences between GET and POST methods, give the case where we can use GET and we can use POST methods ?

(b) Write down a PHP script to display the result of a candidate. Input marks for three subjects, calculate percentage and display result as "PASS" and "FAIL". (If percentage<50% result is "Fail" else "Pass")

(c) Differentiate between LAMP, WAMP, and MAMP.

(4+7+4)

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