A9.2-R5 : 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

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 What is the core of a linux operating system ?

(A) kernel

(B) command

(C) terminal

(D) none of the above

1.2 Suppose you have a text file, which of the following commands will be used to count the total number of lines, words, and characters contained in the mentioned file ?

(A) wc

(B) wcount

(C) countw

(D) None of the above

1.3 You have a file xyz.txt, which is a read only file. The correct way of opening the file in PHP is :

(A) fopen("xyz.txt");

(B) fopen("xyz.txt", "read");

(C) fopen("xyz.txt", "r+");

(D) fopen("xyz.txt", "r");

1.4 The secure( ) argument in setcookie function returns result .

(A) in integer form

(B) in string form

(C) in boolean form

(D) None of the above

1.5 What is the use of the explode function in PHP ?

(A) Split a string into smaller strings

(B) Merge two strings

(C) Create a string

(D) None of the above

1.6 Which function of PHP will sort an array in descending order ?

(A) sort()

(B) asort()

(C) dsort()

(D) rsort()

1.7 The following are three variable names in PHP :

I $get_val

II $get.val

III $get val

Which of the following statements is correct ?

(A) I is correct name for a variable.

(B) III is correct name for a variable

(C) I and II are correct names for variables

(D) None of the above

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1.8 In MySQL, Which table lists the accounts and the databases for which the privileges are provided ?

    (A)   user

    (B)   db

    (C)   tables_priv

    (D)   procs_priv

1.9 Given three variables, which of the following statements is correct ?

    I $_Get

    II $GLOBALS

    III $_LOCAL

    (A)   I is local variable

    (B)   II and III are global variables

    (C)   I and II are global variables

    (D)   None of the above

1.10 Which one of the following functions is used to determine whether a class exists ?

    (A)   exist()

    (B)   exist_class()

    (C)   class_exist()

    (D)   __exist()

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 Platform independence is a OOPs feature.

2.2 Flexibility allows for multilevel inheritance in OOP.

2.3 Constructors can accept parameters in PHP.

2.4 Risk and vulnerabilities are the same thing.

2.5 mysql_init() returns to a float value.

2.6 Cookies are server side variables.

2.7 PHP 5 introduced the instance of keyword

2.8 extern is not a variable scope in PHP

2.9 Constructors can call class methods or other functions.

2.10 Class constructors can call on other constructors.

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	ceil()	A	Returns an integer value of the number of elements in the supplied variable - generally an array, as anything else will return 1.
3.2	die()	B	Terminates the current script execution. If parameter 'status' is specified, also displays 'status' in an error message.
3.3	count()	C	Terminates the current script
3.4	file_get_contents()	D	Used to check if a variable is empty.
3.5	getenv()	E	Rounds up the supplied float value to the next integer and returns the result.
3.6	header()	F	Outputs data to the current stream (console, apache request etc.)
3.7	file_put_contents()	G	Reads a file into a string
3.8	exit()	H	Writes data to a file.
3.9	empty()	I	Returns the value of an environment variable
3.10	echo()	J	Updates the HTTP headers that are sent to the web browser
		K	Final
		L	Static
		M	IPv6

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.	More than one	B.	Cross site scripting	C.	SQL Injection	D.	Schema
E.	CHARSET	F.	Transparent	G.	Cascaded	H.	message passing
I.	1	J.	Information Schema	K.	Inner Join	L.	Cartesian Join
M.	Hypertext documents						

4.1 A synonym for CHARACTER SET is _____.

4.2 The maximum collations a character set can have is _____.

4.3 _____ is a code injecting method used for attacking the database of a system/website.

4.4 XSS stands for _____.

4.5 In MySQL databases, the structure representing the organizational views of the entire databases is _____.

4.6 Deletion of an employee from table also deletes that employee from another table. This kind of delete is called _____.

4.7 The feature by which one object can interact with another object is _____.

4.8 The special database that always exists after setting up MySQL in a computer is _____.

4.9 The join where all possible row combinations are produced is called _____.

4.10 CROSS JOIN is similar to _____.

PART TWO

(Answer any FOUR questions)

5. (a) What is the use of static and dynamic web page ?

(b) Enlist the names of some web application ?

(c) Passwords are a crucial piece of data that needs a special type of validation to ensure its security. Consider a signup form having two fields: password and confirm password fields. To validate these pair of inputs, the following condition you will need to consider:

  I.   The password must be more than 6 characters long.

  II. The value of the password and the confirm password field must be the same.

Write HTML and JavaScript for accomplishing above said task.

(5+2+8)

6. (a) Write the importance of following settings in php.ini

  I.   short_open_tag = Off

  II. warn_plus_overloading = Off

  III. auto-prepend-file = [path/to/file]

  IV. mysql.default_user = username

(b) What is cookie ?

(c) Explain with the help of an example, how to create and delete a cookie in PHP.

(4+3+8)

7. (a) Write PHP programs to create Login and Logout using Sessions.

(b) How to delete text from file using preg_replace() function in PHP ? create a text file named as fruits.txt. It contains list of some fruits.Write PHP program to delete a specific content (say apple) from the file using preg_replace() function.

(7+8)

8. (a) Write syntax of jQuery $.post() Method. Also give an example to use the $.post() method to send some data along with the request.

(b) Write PHP script to create connection and a mysql table named "Guests",with five columns: "id", "firstname", "lastname", "email" and "reg_date". Define id column as primary key.

(7+8)

9. (a) Explain creation of a Class and Objects in PHP with example.

(b) Explain the following web application vulnerabilities.

  I.   SQL injection

  II. Cross-Site Scripting

  III. Cross-Site Request Forgery

(6+9)

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