Sl. No.

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 respect.

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 Which of the following are types of Kernel in Linux ?

(A) Monolithic Kernel

(B) Hybrid Kernel

(C) Exo Kernel

(D) All of the above

1.2 You are given the following PHP program, what will be the output generated by it ?

```
<?php
$a = 22;
function show()
{
$a = 20;
echo "$a";
}
show();
echo "$a";
?>
```

(A) 2020

(B) 2222

(C) 2022

(D) None of the above

1.3 SELECT select_list

FROM table_list WHERE row_constraint

GROUP BY grouping_columns;

Which of these is not optional ?

(A) select_list

(B) table_list

(C) Row_constraint

(D) grouping_columns

1.4 Which of the following names is used by php to recognize constructors ?

(A) function_construct()

(B) function_construct()

(C) construct()

(D) None of the above

1.5 You are given the following code

class student{ int marks; };

class topper:public student{ int age; topper(int age){ this.age=age; } };

Which concept/concepts of object oriented programming are highlighted here ?

(A) Encapsulation and Inheritance

(B) Inheritance and polymorphism

(C) Polymorphism

(D) Inheritance

1.6 Which of the following is **NOT** an argument of the setcookie() function ?

(A) Name

(B) Value

(C) httponly

(D) None of the above

1.7 In Linux OS, you have to set up a remote terminal connection. Which of the following TCP/IP Protocol will you use ?

(A) FTP

(B) UDP

(C) RARP

(D) TELNET

1.8 Which of the following method scopes is/are not supported by PHP ?

I   Private

II   Final

III   Static

IV   Abstract

(A) II

(B) IV

(C) II and IV

(D) I and II

1.9 What will be the output of the following code ?

```php
<?php

while()

    {

    echo "Hello NIELIT";

    }

?>
```

(A) Hello NIELIT

(B) Error

(C) Infinite loop

(D) No Output

1.10 You are given date and time in the form of a string of english text, which of the following functions will you use to convert the string into a Unix time stamp ?

(A) str_to_time()

(B) strtodate()

(C) strtotime()

(D) None of the above

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 The comma (,) operator can be used to join tables.

2.2 Cross join is similar to natural join.

2.3 Cross join is similar to inner join.

2.4 date_sunrise() function in PHP returns the time of sunrise of a particular day and location.

2.5 Code reusability is the most significant feature of OOP.

2.6 Polymorphism increases the overhead of function definition always

2.7 Constructors cannot accept parameters.

2.8 exist_class() is used to check whether a class exists or not.

2.9 The ceil() function rounds up the supplied float value to the next integer and returns the result.

2.10 Cookies are stored both at the server end and at the client end.

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	allow_url_fopen	**A.**	Has default values as "1"
3.2	auto_detect_line_endings	**B.**	Checks if the end of an file has been reached
3.3	feof()	**C.**	Returns last time a file was modified
3.4	fileatime()	**D.**	Change file owner
3.5	filectime()	**E.**	Change file group
3.6	filemtime()	**F.**	Returns the last access time of a file
3.7	flock()	**G.**	Change file mod
3.8	chown()	**H.**	Locks a file
3.9	chgrp()	**I.**	Has default value as "0"
3.10	chmod()	**J.**	Returns the last change time of a file
		K.	Open a file
		L.	Returns '-1'
		M.	Merge Files

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.	Encapsulation	C.	Inheritance	D.	Schema
E.	Superglobal array	F.	views	G.	Zero	H.	subquerying
I.	1	J.	Deterministic	K.	Events	L.	ls -la
M.	Open Source						

4.1 In PHP4.1 the cookies name/value pair are added to the _____.

4.2 In MySQL a given function can return _____ values.

4.3 _____ feature of OOP is used to hide/group data into one element.

4.4 For the same input parameters, if the stored function returns the same result, it is called _____.

4.5 Triggers are not supported for _____.

4.6 _____ have no SQL SECURITY characteristic and always execute with definer privileges.

4.7 To check if the data directory contains insecure files or directories, the command executed is _____.

4.8 The provision in MySQL that allows nesting one select statement into another is called _____

4.9 _____ feature of OOP provides the ability to reuse code.

4.10 In MySQL a given procedure can return _____ values.

PART TWO
(Answer any FOUR questions)

5. (a) How open source software is different from proprietary ?

(b) What is the most popular open source CSS framework used in responsive web design ? Why is it important to have a responsive website ?

(c) "It is important to validate the email before you can store or process it". Write JavaScript using regular expression to check if an email satisfies all the required conditions.

(3+4+8)

6. (a) Write the importance of following settings in php.ini
   I.   A auto-append-file = [path/to/file]
   II. mysql.default_host = hostname
   III. mysql.default_password = password
   IV. file_uploads = [on/off]

(b) In PHP write script
   I.   To open a file, and give the correct syntax to output one character at the time, until end-of-file.
   II. To create an associative array containing the age of Amit, Bhanu and Jai.
   III. To output "Yes" if $a is equal to $b, otherwise output "No".

(8+7)

7. (a) Create a simple HTML form and accept the user name and display the name through PHP echo statement.

(b) How do you set basic authentication in HTTP header PHP ? Write PHP script.

(7+8)

8. (a) Write CSS.
   I.   to Set the color of the element with id="para1", to red.
   II. to Change the color of all <p> and <h1> elements, to "red". Group the selectors to minimize code.

(b) Write PHP script to insert a new row to the persons database table by specifying values for the first_name, last_name and email fields.

(c) What is the difference between mysql_fetch_array and mysql_fetch_object ?

(6+5+4)

9. (a) What is session hijacking in PHP ? How to defend web application against session hijacking ? Write PHP script that mitigate the effect of session hijacking attack and that checks various parameters including IP Address, User Agent, Session expiry etc.

(b) Write the utility of following web services :
   I.   OAuth
   II. SOAP
   III. Yar
   IV. REST

(7+8)

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SPACE FOR ROUGH WORK