

Sl. No.

A9.2-R5 : WEB APPLICATION USING PHP

अवधि : 03 घंटे

DURATION : 03 Hours

अधिकतम अंक : 100

MAXIMUM MARKS : 100

ओएमआर शीट सं. :

OMR Sheet No. :

रोल नं. :

Roll No. :

उत्तर-पुस्तिका सं. :

Answer Sheet No. :

परीक्षार्थी का नाम :

Name of Candidate :

परीक्षार्थी के हस्ताक्षर :

Signature of Candidate :

परीक्षार्थियों के लिए निर्देश :**Instructions for Candidate :**

कृपया प्रश्न-पुस्तिका, ओएमआर शीट एवं उत्तर-पुस्तिका में दिये गए निर्देशों को ध्यानपूर्वक पढ़ें।	Carefully read the instructions given on Question Paper, OMR Sheet and Answer Sheet.
प्रश्न-पुस्तिका की भाषा अंग्रेजी है। परीक्षार्थी केवल अंग्रेजी भाषा में ही उत्तर दे सकता है।	Question Paper is in English language. Candidate can answer in English language only.
इस मॉड्यूल/पेपर के दो भाग हैं। भाग एक में चार प्रश्न और भाग दो में पाँच प्रश्न हैं।	There are TWO PARTS in this Module/Paper. PART ONE contains FOUR questions and PART TWO contains FIVE questions.
भाग एक "वैकल्पिक" प्रकार का है जिसके कुल अंक 40 हैं तथा भाग दो "व्यक्तिपरक" प्रकार का है और इसके कुल अंक 60 हैं।	PART ONE is Objective type and carries 40 Marks. PART TWO is Subjective type and carries 60 Marks.
भाग एक के उत्तर, ओएमआर उत्तर-पुस्तिका पर ही दिये जाने हैं। भाग दो की उत्तर-पुस्तिका में भाग एक के उत्तर नहीं दिये जाने चाहिए।	PART ONE is to be answered in the OMR ANSWER SHEET only. PART ONE is NOT to be answered in the answer book for PART TWO.
भाग एक के लिए अधिकतम समय सीमा एक घण्टा निर्धारित की गई है। भाग दो की उत्तर-पुस्तिका, भाग एक की उत्तर-पुस्तिका जमा कराने के पश्चात् दी जाएगी। तथापि, निर्धारित एक घंटे से पहले भाग एक पूरा करने वाले परीक्षार्थी भाग एक की उत्तर-पुस्तिका निरीक्षक को सौंपने के तुरंत बाद, भाग दो की उत्तर-पुस्तिका ले सकते हैं।	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.
परीक्षार्थी, उपस्थिति-पत्रिका पर हस्ताक्षर किए बिना और अपनी उत्तर-पुस्तिका, निरीक्षक को सौंपे बिना, परीक्षा हॉल/कमरा नहीं छोड़ सकते हैं। ऐसा नहीं करने पर, परीक्षार्थी को इस मॉड्यूल/पेपर में अयोग्य घोषित कर दिया जाएगा।	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.
प्रश्न-पुस्तिका को खोलने के निर्देश मिलने के पश्चात् एवं उत्तर लिखना आरम्भ करने से पहले उम्मीदवार जाँच कर यह सुनिश्चित कर लें कि प्रश्न-पुस्तिका प्रत्येक दृष्टि से संपूर्ण है।	After receiving the instruction to open the booklet and before starting to answer the questions, the candidate should ensure that the Question Booklet is complete in all respect.

जब तक आपसे कहा न जाए, तब तक प्रश्न-पुस्तिका न खोलें।

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

PART ONE

(Answer all the questions)

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 preferred way for adding a background color in HTML ?

(A) `<body background="yellow">`
(B) `<background>yellow</background>`
(C) `<body style="background-color: yellow">`
(D) `<background color="yellow">text< background>`

- 1.2 How can you open a link in a new browser window ?

(A) ``
(B) ``
(C) ``
(D) ``

- 1.3 Which of the following command makes any file executable in Linux environment ?

(A) `chmod +r`
(B) `chmod +rw`
(C) `chmod +w`
(D) `chmod +x`

- 1.4 The first line of any shell script contains :

(A) `@/bin/bash`
(B) `$/bin/bash`
(C) `#/bin/bash`
(D) `#!/bin/bash`

- 1.5 Which one of the following statements instantiates the mysqli class ?

(A) `mysqli = new mysqli()`
(B) `$mysqli = new mysqli()`
(C) `$mysqli->new mysqli()`
(D) `mysqli->new mysqli()`

- 1.6 What will be the output of the following PHP code ?

```
<?php
$a = 5 ;
$b = 5 ;
echo ( $a === $b ) ;
?>
```

(A) `5 === 5`
(B) `False`
(C) `Error`
(D) `1`

- 1.7 How will you delete a cookie in PHP ?

(A) using `delcookie()` function.
(B) using `delete()` function.
(C) by setting the cookie expiration date in the past.
(D) by setting the cookie value to NULL.

<p>1.8 Which of the following functions is used to sort an array in descending order ?</p> <p>(A) sort() (B) rsort() (C) asort() (D) dsort()</p>	<p>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)</p>
<p>1.9 What will be the output of the following PHP code ?</p> <pre><?php do { print " hi "; } while (0); print " hello"; ?></pre> <p>(A) infinite loop (B) hihello (C) hello (D) hihihello</p>	<p>2.1 Arrays cannot have associative indices in PHP.</p> <p>2.2 PHP scripts are located in the web server document tree.</p> <p>2.3 \$this is a reference to the calling object.</p> <p>2.4 In PHP, property of an object is accessed via dot (.) operator.</p> <p>2.5 The variable name is case-sensitive in PHP.</p> <p>2.6 MySQL is an object-oriented database management system.</p> <p>2.7 Multiple values can be returned from a stored procedure in MySQL.</p> <p>2.8 ls command is used to list the files within a directory in Linux.</p> <p>2.9 The file permission 764 of a file in Linux represents that, anyone can write into the file.</p> <p>2.10 If there is no error, the mysqli error() function will return FALSE.</p>
<p>1.10 What will be the output of the following PHP code ?</p> <pre><?php define ("GREETING" , "PHP is a scripting language"); echo \$GREETING; ?></pre> <p>(A) no output (B) error (C) \$GREETING (D) PHP is a scripting language</p>	

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	count()	A.	Returns the next field in the result-set, as an object.
3.2	arsort()	B.	jQuery element selector based upon particular <i>id</i>
3.3	fetch_field()	C.	CSS function that inserts the value of a custom property.
3.4	getResponseHeader()	D.	CSS element selector with specified class.
3.5	innerHTML	E.	CSS function, that returns the value of an attribute of the selected element.
3.6	attr()	F.	jQuery element selector to select all paragraphs on a page.
3.7	\$ ("p")	G.	This property can be used to get or change any HTML element.
3.8	\$ (" #test")	H.	Return the length of array in PHP
3.9	.class	I.	Returns specific header information in AJAX
3.10	var()	J.	Sorts an associative array in descending order, according to the value.
		K.	Return element of an array in PHP
		L.	Return previous field in the result set
		M.	Return content information in AJAX

4. Each statement below has a blank space to fit one of the word(s) or phrase(s) in the list below. Enter your choice in the “OMR” answer sheet attached to the question paper, following instructions therein. (1x10)

A.	mkdir	B.	man	C.	CURDATE
D.	CSS()	E.	\$_SESSION	F.	CREATE TRIGGER
G.	whoami	H.	date()	I.	\$ ("p").hide()
J.	manual	K.	open-source	L.	user
M.	cur_date()				

- 4.1 Linux is an _____ Operating System.
- 4.2 _____ is the command to create a new directory in Linux.
- 4.3 _____ command can be used to check the manual for other commands in Linux.
- 4.4 _____ function returns the current date in MySQL.
- 4.5 Session value in PHP can be set using _____.
- 4.6 _____ statement is used to create a new trigger in MySQL.
- 4.7 _____ function is used to format a date in PHP.
- 4.8 jQuery selector _____ hides all paragraphs of an HTML page.
- 4.9 _____ method in jQuery sets or returns one or more style properties for the selected elements.
- 4.10 _____ is the command to show current user in Linux.

PART TWO

(Answer any FOUR questions)

5. Consider the table *users* in a MySQL database named *mydb* having the following columns.

(id varchar(10), name varchar(50), contact int, email varchar(50))

with *id* as the primary key.

- (a) Write MySQL commands to switch to the necessary database *mydb*, and create the table *users* as specified.
- (b) Enter any three users of your choice, into the table.
- (c) Design a registration form in HTML for users to register themselves using the following details :
User ID, Name, Contact, Email ID.
Each entry must have a label followed by a textbox for users to provide the desired entry. The form must have necessary validators.
- (d) Write down a PHP script to enter the information provided by user on the HTML form in the provided table. Consider the database server is available at *localhost*, with user name *uname* and password *pass*.

(2+3+5+5)

6. (a) Describe the differences between a *session* and a *cookie* in PHP.
- (b) Describe with suitable examples of PHP scripts to demonstrate the followings :
- (i) Starting a session.
 - (ii) Storing session data.
 - (iii) Accessing session data.
 - (iv) Destroying certain session data.
 - (v) Destroying complete session.

(5+(2x5))

7. (a) What do you mean by superglobal variables in PHP ? Describe the following superglobal variables with suitable examples of PHP scripts.

- (i) `$GLOBALS`
- (ii) `$_FILES`
- (iii) `$_ENV`
- (iv) `$_REQUEST`

- (b) What are the differences in *require* and *include* statements in PHP ? State with suitable examples.

- (c) Describe the *fopen()*, *fread()*, and *fclose()* functions in PHP, by applying the three functions within a single PHP script to handle a file.

(10+2+3)

8. (a) Describe the advantages of jQuery.

- (b) Describe any five jQuery event handling methods with suitable examples. Your choice of methods must contain atleast one Mouse event, atleast one Keyboard event, atleast one Form method, and atleast one Document event.

- (c) Describe the *get()*, *post()*, and *load()* methods of jQuery AJAX, with suitable examples.

(2+10+3)

9. (a) What is *XMLHttpRequest* object ? How does it send request to the server ? Describe with suitable example.

- (b) State and describe the following properties of the *XMLHttpRequest* object :

- (i) `onreadystatechange`
- (ii) `readyState`
- (iii) `status`
- (iv) `statusText`

- (c) What is a callback function ? Show an example of callback function in the light of AJAX.

- (d) Explain the following Security Vulnerabilities :

- (i) Cross Site Scripting
- (ii) SQL Injection

(3+4+2+6)

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SPACE FOR ROUGH WORK

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