This question paper contains 6 printed pages]

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S. No. of Question Paper : 1198

Unique Paper Code

: 2343010012

Name of the Paper

: Web Design and Development (Discipline-Specific Elective)

Name of the Course

: B.A. (Prog.)/B.Sc. (P)/B.Sc. Maths. Sc.

Semester

: V

Duration: 3 Hours

Maximum Marks: 90

(Write your Roll No. on the top immediately on receipt of this question paper.)

This paper contains two sections—Section A and Section B.

Section A is compulsory. It carries 30 marks.

Attempt any four questions out of six from Section B.

Each question in Section B carries 15 marks.

Parts of a question must be answered together.

· Section A

(Compulsory)

1. (a) Write an HTML tag to set a background image in the body of a webpage. Which attributes are used to control the size of the image on an HTML webpage? Which attributes takes the text to be displayed in case the browser is unable to display an image specified in the 'src' attribute of the image tag?

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- (b) Write a JavaScript code to check whether a number is a multiple of 5.
- (c) Write a PHP script to print the sum of odd digits of a four-digit number.
- (d) Differentiate between internal and external linking in HTML with the help of an example.
- (e) Write HTML code to design the given HTML form with the following validations in JayaScript:
 - (i) 'Student ID' is a 10-digit alphanumeric value
 - (ii) 'Name' should be an alphabetical value (String)

STUDENT	REGISTERATION	FORM
Name		
Student ID	Ĺ	, ·
Email		
	SUBMIT	

(f) Write the output of the following codes with justification:

	(g)	Ans	wer th	ne following:	. 5	
	\$	(i) ·	Give	e an example of a paired and unpaired tag in HTML.		
' {		(ii)	Defi	ine WWW.		
		(iii)	Give	e an example of a right and a left-associative operator in PHP.		
	•	(iv)	List	any two datatypes in JavaScript.		
		(v)	Wha	at do you mean by 'DOCTYPE' in HTML?		
				Section B	•	
2.	(a)	Wha	t wiḷl	be the output of the following: "100"+200+300 in JavaScript? Jus	stify your	
		answ	ver.		2	
•	, (b)	Wha	it is a	n event in JavaScript? What is the purpose of 'onBlur' and 'onFocu	s' evențs	
	•	in Ja	avaSc	ript ?	2	
	(c)	Writ	te a P	PHP code to find a minimum of three numbers.	3	
	(d)	(d) Differentiate between Pass-by-Value and Pass-by-Reference with the help of an ex-				
		in PHP.				
٠	(e)	What is the difference between GET and POST methods? Explain with the help of				
		an example. 4				
3.	(a)	Writ	e an	HTML code to display the following list.	5	
•		(1)	Web	Design and Development		
			•	HTML	٠,	
:			•	CSS		
			•	JavaScript		
			•	РНР		
		(2)-	Prog	gramming Languages .		
			(i)	C++		
		•	<u>(ii)</u>	Java		
			(iii)	Python		

(b)	Write an event-driven program in JavaScript to take a number as input (in an input tex
	box in an HTML form) and display its multiplication table at the click of a button.

(c) Write a PHP program to print the following pattern:

ج ح

* * *

* * * *

- 4. (a) Give an example of a dialog box in JavaScript.
 - (b) Write code in HTML to create the following table and display it on a webpage: 4

Station	Tempe	rature	Humidity	
Station	Max	Min .		
USA	24	19	60%	
Germany	5	-1	70%	

(c) Write a program in PHP to calculate the factorial of a number using 'foreach' construct.

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(d) Write a JavaScript code that reads two numbers in an HTML form (as shown below), and when a 'Submit' button in the form is clicked, their sum is displayed in an alert box.

First Number Second Number		÷ ,
·	BMIT	

P.T.O.

5.	(a)	Differentiate between the local and global scope of a variable with the help of an exam	ple
).	in PHP.	5
	(b)	Write a JavaScript code to display whether a given number is a prime or not.	5
	(c)	How does a web browser communicate with a web server ? Explain with the help	of
		a diagram.	5
6.	(a)	Write a program in PHP to print the sum of the first ten natural numbers.	5
	(b)	PHP connects to databases using connection objects. Write PHP commands for	the
		following steps:	5
		(i) Connect to the MySQL server with the server's name as 'localhost'; the use	r's
		name as 'root'; and the password as 'test@123'.	
		(ii) Connect to a 'Company' database.	
		(iii) Create an 'Employee' table in the 'Company' database, and insert the reco	ord
	-	for two employees with ('Name', 'ID', 'Salary') into the table.	
ţ		(iv) Display the details of all the employees.	
		(v) Close the connection.	
	(c)	Write JavaScript code that validates a username and password against the user na	me
		'John Walt' and password 'abc@123'.	5
7.	(a)	Write a PHP function to swap any two numbers.	3
	(b)	Define associative arrays in PHP with the help of an example.	4

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(c) Write an HTML code to design the following form:

	EMPLOYEE SALARY
Name	
Employee ID	
Email	
Başic Salary	
H.R.A.	
T.A.	4
Total Salary	
	CALCULATE

Calculate Total Salary as Basic Salary + H.R.A. + T.A. on "onclick()" event handler using JavaScript for the "CALCULATE" button.

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