

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2023

Course : Web Technologies

Program: MCA

Course Code: CSEG 7017

Instructions:

All the questions are compulsory.

Write down the Serial Number of the question before attempting it.

Semester: I

Time : 03 hrs.

Max. Marks: 100

SECTION A

S. No.		Marks	
Q 1	Design an HTML form as given below. <div data-bbox="402 810 1102 1142" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"><p>Please enter your membership details:</p><p>First Name: <input type="text" value="Sea"/></p><p>Last Name: <input type="text" value="Lyon"/></p><p>Email address: <input type="text" value="slyon@zoo.com"/></p><p>Payment Method: <input type="radio"/> Cash <input checked="" type="radio"/> Cheque <input type="radio"/> Credit</p><p>Communication Preferences: <input type="checkbox"/> Email <input checked="" type="checkbox"/> Newsletter <input type="checkbox"/> Phone</p><p>Membership Type: <input type="text" value="Full"/> <input type="button" value="v"/></p></div>	4	CO1
Q2	Expand the following: a) CSS b) HTML c)SGML d)JS e) XML f) PHP g) XAMP h) LAMP	4	CO2
Q3	Write a PHP program which iterates the integers from 1 to 50. For multiples of seven print "UPES" instead of the number and for the multiples of ten print "MCA". For numbers which are multiples of both seven and ten print "UPES MCA".	4	CO2
Q4	Find the statements in the blocked part of the code in line 2-5 given below. <pre>1 <?php 2 \$fp = fopen(a, "w"); 3 fwrite(b, \$_GET["name"]); 4 fwrite(\$fp, c); 5 d(\$fp); 6 echo "File written successfully"; 7 ?></pre>	4	CO3
Q5	State the steps for installing MYSQL database and create a database student in MYSQL.	4	CO4

SECTION B			
Q 6	State the need of functions and how is it constructed in Javascript. Demonstrate with an example to discuss the application of functions to validate the name field and emailID field immediately when a user enters the data.	10	CO1
Q 7	a) List any 4 string functions in JS with its functionality. (4 Marks) b) Write a program using client side scripting that accepts a string as input and swaps the case of each character. For example if you input `upes MCA` the output should be 'UPES mca'. (6 Marks)	10	CO1
Q 8	Develop a software using PHP to determine the grade of the steel by getting the value of rockwell hardness, carbon content and tensile strength from the user. Provide 2 test case to check the software.(Note: Use proper coding standards) A certain steel is graded according to the following conditions: (i) Rockwell hardness > 50 (ii) Carbon content > 0.7 (iii) Tensile strength > 5600 kg/cm.sq The steel is graded as follows: a. Grade A, if all the conditions are satisfied b. Grade B, if conditions (i) and (ii) are satisfied c. Grade C, if conditions (ii) and (iii) are satisfied d. Grade 0, otherwise.	10	CO3
Q 9	Explain PHP function overriding with an example. OR Define a class student in PHP with the following specification • Private data members of class student are admno,stuname,engmarks, mathmarks, sciencemarks,total. • Public member function of class student ○ scoreTotal() - a function to calculate eng + math + science with return type. ○ takeData() - Function to accept values for admno, sname, eng, science and invoke ctotal() to calculate total. ○ showData() - Function to display all the data members on the screen. • Create object and call suitable function to fetch the marks, calculate the total and display the calculated value.	10	CO3
SECTION-C			
Q10	a) Discuss the difference between the use of GET and POST methods with examples. (10 Marks) b) Develop a web application using PHP to work with files, reading data from a file and writing user data into file.(10 Marks) a. Create a Page to enter student data using form controls. b. Have a SUBMIT button, when clicked the message has to be saved at the backend in a JSON format text file. OR	20	CO2

	<p>a) Create a Mypage.html, where you get the message from the user through a textarea control. On clicking the Submit Button on the Mypage.html, Call the Process.php to convert the entered message into uppercase and print it by Server side programming.(10 Marks).</p> <p>b) Discuss on various file operations performed in PHP.(10 Marks)</p>																						
<p>Q11</p>	<p>Construct a PHP program to store the data in the database at the backend as shown in the table and an UI in the front-end using HTML and CSS to fetch the data and address the below questions.</p> <p>a) Find the details of the student when ID is given as input from user.(5 marks)</p> <p>b) Display all the students details sorted in Name Order(5 Marks)</p> <p>c) Display all the students on entering the class name in a dropdown list.(5 Marks)</p> <p>d) Update the name of the student.(5 Marks)</p> <table border="1" data-bbox="342 762 1179 942"> <thead> <tr> <th>ID</th> <th>NAME</th> <th>CLASS</th> <th>MARK</th> <th>GENDER</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>John Deo</td> <td>Four</td> <td>75</td> <td>female</td> </tr> <tr> <td>2</td> <td>Max Ruin</td> <td>Three</td> <td>85</td> <td>male</td> </tr> <tr> <td>3</td> <td>Arnold</td> <td>Three</td> <td>55</td> <td>male</td> </tr> </tbody> </table> <p>Hint: Use relevant controls to perform suitable actions.</p>	ID	NAME	CLASS	MARK	GENDER	1	John Deo	Four	75	female	2	Max Ruin	Three	85	male	3	Arnold	Three	55	male	<p>20</p>	<p>CO4</p>
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