

Name:

Enrolment No:



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**End Semester Examination, December 2021**

**Course : Web Technologies through PHP**

**Program: MCA**

**Course Code: CSEG 7009**

**Semester: I**

**Time : 03 hrs.**

**Max. Marks: 100**

**Instructions:**

All the questions are compulsory.

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

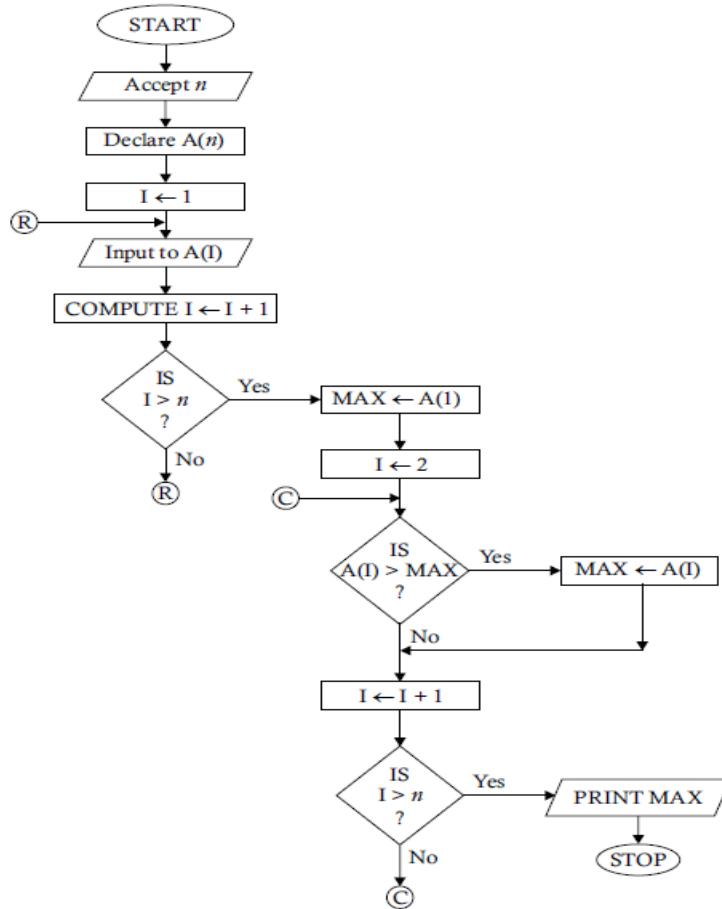
**SECTION A**

S. No.		Marks	
Q 1	Design an HTML form as given below. <div><div>&lt; Details</div><div>Student Name: <input type="text"/> MCA Subjects: <input type="text"/></div><div>Enter Your Hobbies</div><div><input type="checkbox"/> Sports <input type="checkbox"/> Reading <input type="checkbox"/> Surfing <input type="checkbox"/> Playing</div></div>	4	CO1
Q2	Compare between echo and print statement in PHP?	4	CO2
Q3	What is an escape sequence in PHP? What is the use of it? Give examples.	4	CO2
Q4	Justify why function overloading is not supported in PHP?	4	CO3
Q5	Specify the purpose and the parameter that are passed in the mysqli_connect() method. Give an example for the same.	4	CO4

**SECTION B**

Q 6	Design web pages to demonstrate the effect of roll over buttons using HTML and JavaScript. When the user places his or her mouse pointer over an icon image, the corresponding image displaying the details appears.	10	CO1
Q 7	Discuss the three ways of adding CSS into an HTML document. Explain with suitable examples.	10	CO1
Q 8	Define a class student in PHP with the following specification <ul style="list-style-type: none"><li>Private data members of class student are admno, stuname, engmarks, mathmarks, sciencemarks, total.</li><li>Public member function of class student</li></ul>	10	CO3

	<ul style="list-style-type: none"> <li>○ ctotal() - a function to calculate eng + math + science with return type.</li> <li>○ Takedata() - Function to accept values for admno, sname, eng, science and invoke ctotal() to calculate total.</li> <li>○ Showdata() - Function to display all the data members on the screen.</li> <li>○ Create object and call suitable function to fetch the marks, calculate the total and display the calculated value.</li> </ul>		
Q 9	<p>Discuss the use of various Exceptional Handlers with suitable examples.</p> <p style="text-align: center;"><b>OR</b></p> <p>Create a calculator in PHP that use the below math built-in functions. Assign the input as static variables. The application should have a menu and these functions used as a choice.</p> <ul style="list-style-type: none"> <li>• The abs() function returns absolute value of given number. It returns an integer value but if you pass floating point value, it returns a float value.</li> <li>• The ceil() function rounds fractions up.</li> <li>• The floor() function rounds fractions down.</li> <li>• The sqrt() function returns square root of given argument.</li> <li>• The decbin() function converts decimal number into binary. It returns binary number as a string.</li> </ul>	10	CO3
<b>SECTION-C</b>			
Q10	<p>a) Discuss the need of functions and how is it constructed in PHP. Demonstrate an example to discuss functions having argument and return type.(10 Marks)</p> <p>b) Develop an Electricity Bill Calculator app in PHP which takes the no-of-units consumed as input and displaying the amount to be payed on the below given conditions as output.(10 Marks)</p> <ul style="list-style-type: none"> <li>• For the first 50 units – Rs. 3.50/unit</li> <li>• For next 100 units – Rs. 4.00/unit</li> <li>• For next 100 units – Rs. 5.20/unit</li> <li>• For units above 250 – Rs. 6.50/unit</li> </ul> <p style="text-align: center;"><b>OR</b></p> <p>a) Describe the various looping structures in PHP with its syntax and illustrate its working with flowchart and example.(10 Marks).</p> <p>b) Implement the below given flowchart in PHP.(10 Marks).</p>	20	CO2



Q11

- List any 4 popular SQL databases in the Market.(2 Marks)
- State the steps to connect to the database and explain it. (8 Marks)
- Write a PHP Program using the below given details.(10 Marks)
  - Host name = myserver,Username=<sapid>,Password=<sapid>,Database name=mydb
  - Assume the StudentDB has a table Marks with the data as given below. Write the PHP program to display the student details like Name, Total and Average marks by taking the user input as Name.

Student	Maths (150)	Chemistry (130)	Physics (120)	Geography (100)	History (60)	Computer Science (40)
A	90	50	90	60	70	80
B	100	80	80	40	80	70
C	90	60	70	70	90	70
D	80	65	80	80	60	60
E	80	65	85	95	50	90
F	70	75	65	85	40	60
G	65	35	50	77	80	80

20

CO4