<table>
<tr><td>Name:

Enrolment No:</td><td>UPES
UNIVERSITY OF TOMORROW</td></tr>
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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Supplementary Examination, December 2023

Course : Web Technologies through PHP	Semester: I
Program: MCA	Time : 03 hrs.
Course Code: CSEG 7009	Max. Marks: 100

Instructions:
All the questions are compulsory.
Write down the Serial Number of the question before attempting it.
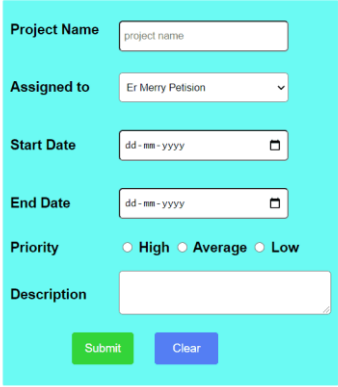
SECTION A

S. No.		Marks	
Q 1	Design an HTML form as given below. 	4	CO1
Q2	Differentiate Indexed and Associative array in PHP.	4	CO2
Q3	Define this keyword. Give an example to demonstrate it.	4	CO2
Q4	List any four string functions in PHP with its purpose and an example.	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	State the need of exception handling. Mention the various exception handlers used in JS. Demonstrate with an example to discuss the application of any 3 exception handlers.	10	CO1
Q 7	a) List the various Looping Structures in Java Script with the syntax.(5 Marks) b) Implement the below given flowchart using JavaScript.(5 Marks)	10	CO1
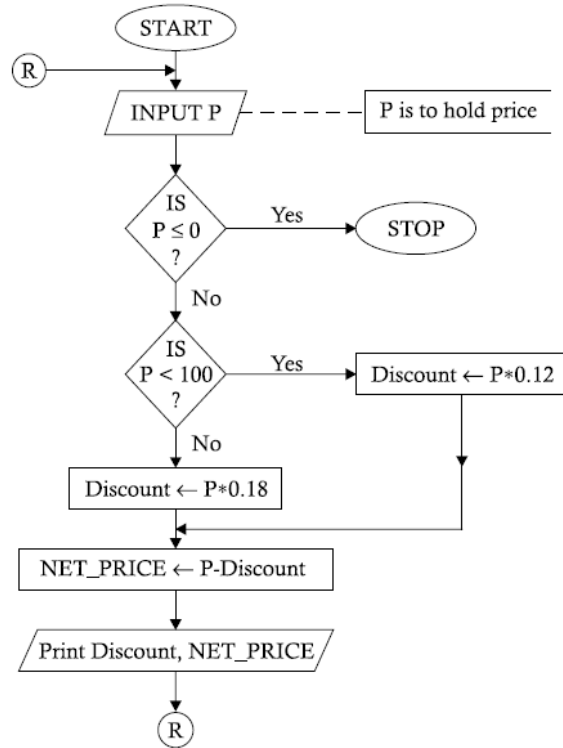
Q 8	Discuss on how encapsulation is achieved in PHP with suitable example.	10	CO3
Q 9	**Instruction: Answer 9.a OR 9.b** Explain PHP function overriding with an example. **OR** Develop a PHP Calculator class which will accept two values as arguments in constructor, then add them, subtract them, multiply them together, or divide them on request.	10	CO3

<div align="center">**SECTION-C**</div>

| Q10 | a) Design an HTML form as given below using tables for formatting. (10 Marks)
b) Write suitable code to fetch the data, and display the data provided by the user along with validating the fields. (10 Marks)
 | 20 | CO2 |

	OR		
	a) Describe the various decision structures in PHP with its syntax and illustrate its working with flowchart and example.(10 Marks). b) 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.		
Q11	Explain the steps for designing & creating your web database project with suitable example for accessing mysql database from web with PHP.	**20**	**CO4**