

COURSE CODE: 10B22CI521

MAX. MARKS: 25

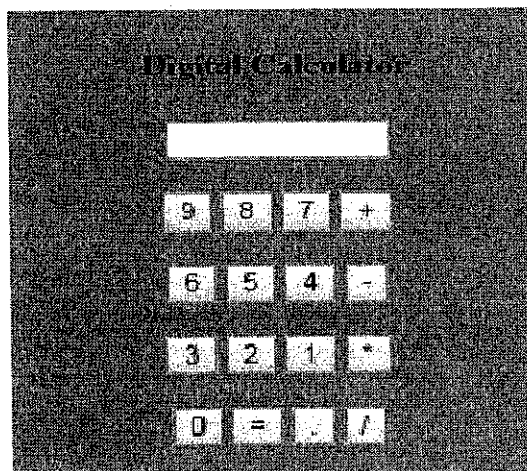
COURSE NAME: Web Application Engineering

COURSE CREDITS: 4

MAX TIME: 90 Minutes

**Note:** All questions are compulsory. Carrying mobile phone during examinations will be treated as case of unfair means.

1. [CO-2] Define DHTML. Discuss various components of DHTML in detail. [2 Marks]
2. [CO-3] State three major differences between JavaScript & PHP. Also discuss important features and various applications of PHP. [3 Marks]
3. [CO-3] Differentiate between the following methods used in JavaScript taking suitable examples for each of them:
  - a. substring( ) and substr( )
  - b. toFixed( ) and toPrecision( )
  - c. exec( ) and test( ) method
  - d. charAt( ) and charCodeAt( )[4 Marks]
4. [CO-3] Use HTML, CSS & JavaScript to display the given "Digital Calculator" such that alert box should appear by clicking on any digit with the message "You clicked a number", Confirm box should appear by clicking on any arithmetic operator with the message "You clicked an operator" & a prompt box would appear in any other case with the message "Enter valid input". [6 Marks]



5. [CO-4] Write down code to display the following Registration Form on a web page. Apply form validation without using regular expressions as according: Roll Number can contain digits only, Name must contain characters only and Password must be of 6 characters at least such that while submitting the form if all field are correct then alert box should appear with the message "Form Submitted Successfully" and if some mistake then confirm box should appear with the message "Re-Check the form". [7 Marks]

Registration Form	
Roll Number	<input type="text" value="enter your roll number"/>
Name	<input type="text" value="enter your name"/>
Password	<input type="password"/>
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female
Branch	<input type="text" value="CSE ▼"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

6. [CO-3] Define Array. Declare an array in JavaScript with 7 different country names. Then apply all possible array methods to print that array in descending order of their alphabets (from Z to A). [3 Marks]