

Group B

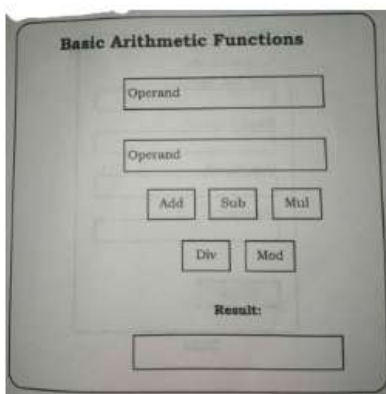
Attempt any Six question

2. Explain the concept, structure and importance of Document Object Model (DOM).
3. What is JavaScript? Write a JavaScript to print largest & smallest among 10 elements of an array
4. What is dialog box? Explain different dialog boxes with suitable example in JavaScript.
5. Explain two HTTP functions to accept the user values from interface with suitable PHP program.
6. What is the use of JQuery? Write the sample program to show and hide the certain with use of JQuery.
7. Why Ajax is required in web development? Write an sample program to synchronize data between JavaScript and PHP.
8. Why is CMS? Write the steps to create a sub-menu in WordPress or Joomla.

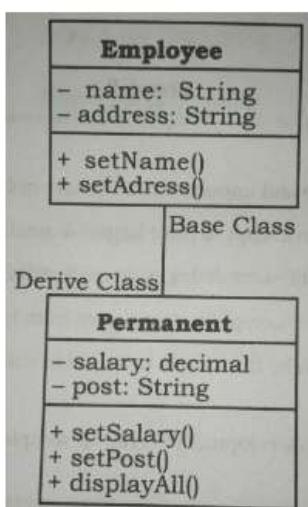
Group C

Attempt any Two question

9. Design the following form in HTML and display the value in the result box after calculating basic arithmetic operations based on user input with use of JavaScript



10. Write an Object-Oriented PHP Program to implement the concept of inheritance in considering with following class diagram with use of constructor for 20 students.



11. Design following form in HTML and write corresponding PHP and SQL code to store the user's values after satisfying following validation rules.

- a) Length of full name up to 40 characters.
- b) Email address must be valid email address.
- c) Username must be start with string followed by number.
- d) Password length must be more than eight characters.

Assume your own database and database connectivity constrains if necessary.



Tribhuvan University
Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2020

Bachelor in Computer Applications
Course Title: Scripting Language
Code No: CACS254
Semester: IV

Full Marks: 60
Pass Marks: 24
Time: 3 hours

Candidates are required to answer the questions in their own words as far as possible.

Group B

Attempt any SIX questions.

[6×5 = 30]

2. What is JavaScript? What are the potential platforms where JavaScript can be used? [1+4]
3. Define JavaScript event. Illustrate how an event handler response particular event in web page. [1+4]
4. What is an Immediately Invoked Function in JavaScript? Explain with suitable example. [1+4]
5. Explain an array using suitable example and discuss how *foreach loop* accessing of elements is stored in an array using PHP. [2+3]
6. What is jQuery? illustrate different types of selectors in jQuery with appropriate example? [1+4]
7. What is the benefit of using AJAX? Discuss major methods that communicate with server-side scripting. [1+4]
8. Discuss about MVC architecture with appropriate diagram. [5]

Group C

Attempt any TWO questions.

[2×10 = 20]

9. a) Write a program which includes a function sum(). This function sum() should be designed to add an arbitrary list of parameters. (For e.g., if you call the function sum() as sum(1, 2) it should return the result 3 and if again you call the function sum() as sum(1,3,4) it should return the result 8). [5]
b) Write a program that displays the continuous time in the web page. The time should be in the format of HH:MM:SS. [5]
10. Define method overriding. Write a PHP program to handle the overriding situation. [2+8]
11. Design following form in HTML and write corresponding PHP and SQL code for CRUD operations based on user's data.

Assume your own database and database connectivity related constraints if necessary. [10]



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[6×5 = 30]

2. Explain features of JavaScript? [5]
3. What is NaN in JavaScript? Write JavaScript code to change background color of web page every second. [1+4]
4. What is arrow function? Write JavaScript code to calculate factorial of given number using arrow function. [1+4]
5. Write a program to create Chess board in PHP using loop. [5]
6. Write jQuery code to include date picker controls in HTML text box. [1+4]
7. Write a JavaScript program to retrieve any value from server-side script using Ajax. [5]
8. What is constructor? How you implement constructor in php? [5]

Group C

Attempt any TWO questions.

[2×10 = 20]

9. What are advantages of inheritance? Write a PHP program to illustrate the concept of function overloading. [2+8]
10. Write HTML and JavaScript code to create a following calculator for performing basic arithmetic operations. [10]

12			C
1	2	3	+
4	5	6	-
7	8	9	10
0	*	.	=

11. Design following form in HTML and write corresponding server-side script to upload and submit user's data into database in consideration of following validation rules.

Assume your own database and database connectivity related constrains if necessary.

Online Project Submission Form

TU Registration Number

Email Address

Upload your Project File
supported file format:
pdf, doc, docx, ppt, pptx, jpeg

No file chosen

Validation rules:

- o Registration number, email and upload file are mandatory field.
- o Email address should not be a proper email format.
- o Upload file format must include pdf, doc, docx, ppt, pptx, jpeg file format.
- o File size must be less than 5 MB.