



VIT[®]

Vellore Institute of Technology

Continuous Assessment Test (CAT – I) – September 2023

Programme	: MCA	Semester	: Fall Semester 2023-24
Course	: Full Stack Web Development	Code	: PMCA601L
		Class Nbr	: CH2023240101719
Faculty	: Dr. Sandhya P	Slot	: F1+TF1
Time	: 1 ½ hours	Max. Marks	: 50

Answer all the Questions

1. As a web developer you are assigned the task of developing a webpage to display the following timetable using HTML. Write the appropriate code.

Days	Time					
	8:00	9:00	10:00	11:00	11:30	12:30
Mon	Course 1	Course 2	Course 3	B R E A K	Course 5	
Tue			Course 2		Course 4	Course 1
Wed	Course 3				Course 2	
Thr		Course 2	Course 3		Thesis	
Fri	Course 4		Course 1			

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2.

ABC bank sends mails account statements to their account holders every month as a pdf file which is password protected. Develop a web application for ABC bank for password generation using HTML and JavaScript as follows:

- Get the firstname, lastname, age, date of birth (mm/dd/yyyy) and mobile number using HTML form.
- The form must have a “generate password” button which on clicking must generate and display the password in the webpage.
- Password is the concatenation of first character of firstname, last character of lastname and sum of age and month.

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Write the appropriate code for the above scenario.

Ex:

Inputs:

firstname: Kevin

lastname: Eric

age: 20

dob: 07/31/2003

Output:

generated password: Kc27

3.

ABC runs a typing institute where he uses a web application to practice typing. The application has a textbox where you type some text and also has a "Evaluate" button. When the button is clicked use three handlers to alert the number of characters typed first, the number of words and finally number of statements. Write HTML and JavaScript code for the above scenario.

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4.

ABC Pathology Labs in Chennai provides facility for sugar and lipid tests. They wanted a web application as follows:

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- The webpage must have one heading with text as "Sugar" and another heading without any text, two textboxes to enter sugar and lipid values and two buttons namely "Sugar" and "Lipid".
- When the "Sugar" button is clicked the value must be concatenated to "Sugar" heading in the webpage.
- When the "Lipid" button is clicked and if the value is lesser than 100 add the text "Lipid Low" to the second heading. If greater than or equal to 100 add the text "Lipid High" to the heading.

Write a code to perform the above using HTML and DOM.
Webpage:

Sugar

Enter sugar value	Sugar	Enter lipid value	Lipid
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Webpage after clicking "Sugar" button:

Sugar 90

90	Sugar	Enter lipid value	Lipid
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Webpage after clicking "Lipid" button:

Sugar 90

Lipid High

Enter sugar value	Sugar	300	Lipid
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5.

Develop a greeting web application using AJAX and PHP as follows:

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- The greeting page must have an image and textboxes to fetch the name and date of birthday. The page must also have another textbox and a button.
- When the button is clicked update the last textbox with concatenation of "Happy birthday", name and date without reloading the entire page.

Write a code to perform the above.