


VIT

 Vellore Institute of Technology
Chennai • Bangalore • Vellore • Hyderabad • Pune • Sri Lanka
Final Assessment Test – November 2024

Course: ISWE206L - Web Technologies

Class NBR(s): 2941 / 2952 / 2967 / 2986 / 2998

Time: Three Hours

Slot: B1+TB1

Max. Marks: 100

- KEEPING MOBILE PHONE/ANY ELECTRONIC GADGETS, EVEN IN 'OFF' POSITION IS TREATED AS EXAM MALPRACTICE
- DON'T WRITE ANYTHING ON THE QUESTION PAPER

 Answer ALL Questions

(10 X 10 = 100 Marks)

1. Write a HTML code to design the following layout in formatted form and apply CSS box Model

 First Name: Last Name:

 Date of birth: mm / dd / yyyy Age:

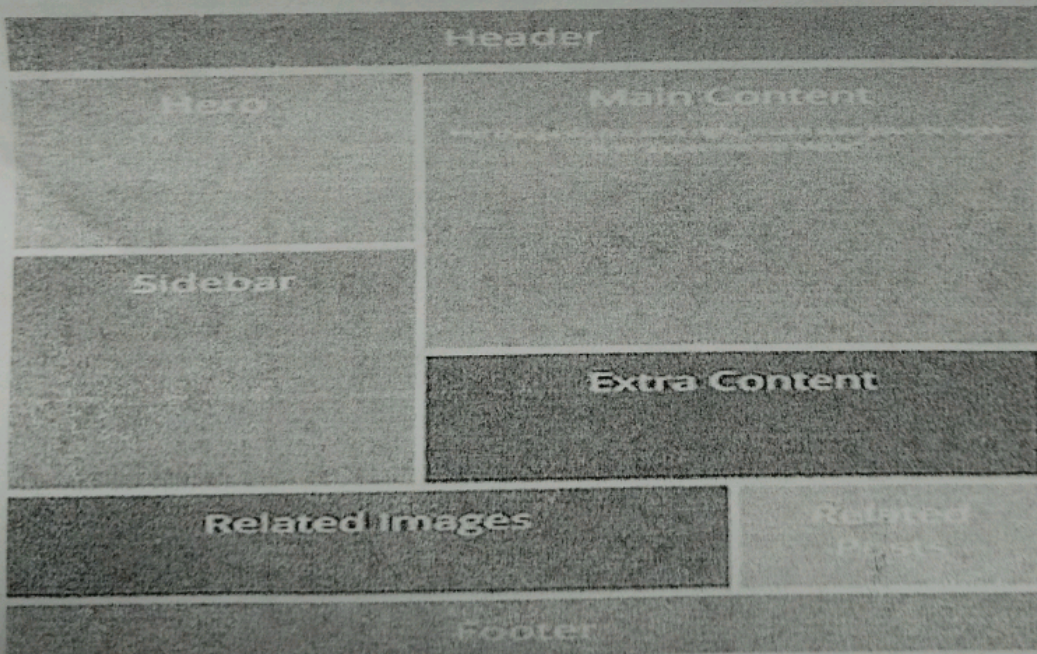
 Gender: Male Email Address: Enter email address

 Positions Available: ☐ Junior Developer ☐ Mid-level Developer ☐ Senior Developer

 Programming Languages: ☐ Java ☐ JavaScript ☐ Python

 Password: Confirm Password:

2. Write the HTML and CSS code to the following layout in flex design with following specifications.



- a) All heading text color must be in white with font size as 15 px.
- b) Choose different background color for each component in the layout.

3. Write a HTML, CSS and JavaScript code to design a string manipulation form which contains two text boxes labelled as string1, string2 and submit button labelled as match. Once you click the match button, the two strings are then passed into a function named as check, which returns how many matches are there between the strings and display the output in heading 2 tag with blue color text and lime background. A match is considered as where the strings have the same character at the same index. For instance, 'Python' and 'Path' match in the first, third and fourth character, so the function should return 3.
4. Write the JavaScript code to validate the form in Question 1 using regular expression with the following constraints and display the error in span tag and validated output in tabular format.
 - a) First name and last name must be 10 to 15 characters.
 - b) Age must be 2 digits.
 - c) Valid VIT email id.
 - d) Password should be in the range 8 to 10 alphanumeric characters with first character as @ and last character as \$.
 - e) Password and confirm password must be same.
5. The RAM MOBILE SHOWROOM webpage lists the different models of mobile that has the provision to add new brand mobile details and remove the out-dated one. Write the JQuery code for the functionalities and refer to the below layout for the sample output.

RAM MOBILE SHOW ROOM

Brand	Model Name	Price	Action
Samsung	Galaxy A55 5G	40000	X
Apple	iphone 16 pro	145000	X
Xiaomi	14 Ultra	80000	X
Oppo	F27 Pro	28000	X
Vivo	V40 5G	33000	X
Motorola	Edge 50	22000	X

Add New Mobile

6. The Westor Company has announced the increment for their employees. The finance department is in the process of calculating the salary by satisfying the following criteria:
- Increment
- 3% of DA if PE ≥ 70 otherwise 2% of DA if PE < 70
- The employee data such as employee id, employee name, performance evaluation, Salary and DA (10% of Salary) are retrieved as the response from the server in the JSON format. The finance officer fetches this information and calculates increment concerning the performance evaluation. Write the AJAX code for the above scenario.
7. You are a senior developer at a tech company that is exploring the potential of Web 3.0 technologies to enhance its digital services. List out and explain web 3.0 key characteristics and web 3.0 application used in various domains.
8. Write a PHP program to get the register number through the form, retrieve the name of the student, name of the program, semester, 3 courses mark from course table in student database, find the result pass/fail for each course mark and display all the details in heading tag if the student belong to that class, otherwise display "Student not belong to this class" message in paragraph tag with font size as 15 pixel, text color as red and background color as yellow.
- 9.a) Write a PHP function Validate() which validates Sign-up form containing the following elements: UserName(text), Gender(radio), Password(text), Re-Type password(text), mobile number(text) and a Validate(submit button), Once the user click the validate button which invoke the Validate().
- The UserName field must have only alphabets and digits.
 - The gender field must be validated such that any one of the options (male/female) must be selected by the user.
 - The length of the password is 6 characters which include at least one digit and one special character.
 - The password and re-type password must be same.
 - The mobile number must have country code and then the number. The country code and the number must be separated by a hyphen.

OR

9.b) Write a HTML code to design a form to upload a file and write the corresponding PHP script with the following specifications.

- i) It should accept PDF file
- ii) The size should not be more than 800 KB.
- iii) The output should display the type of the file, size of the file and location of the file.
- iv) Save the file in a "FILES" folder.

10.a) i) Write a PHP script to display the date of last visit and number of times page is visited using Cookie.

ii) Briefly explain the essential elements of an enterprise tech stack.

OR

10.b) i) Write a HTML code to design "Student details" form to insert the records into student table in Science database using PHP Script.

Admn	Name	Stream	Optional	Average
1001	Shrishti	Science	CS	90
1002	Ashi	Humanities	Maths	80
1003	Aditya	Commerce	IP	60
1004	Ritu Raj	Science	IP	65
1005	Sonali	Commerce	Maths	60
1006	Saumya	Science	IP	65
1007	Ashutosh	Science	IP	95
1008	Prashant	Commerce	P.ED	80
1009	Aman	Commerce	IP	70
1010	Rishabh	Humanities	P.ED	85

ii) Write the relevant MySQL query to find the output for the following :

- a) To display the details of all those students who have IP as their optional subject.
- b) To display name, stream and optional of all those students whose name starts with 'A'.
- c) To give an increase of 3 in the average of all those students of humanities section who have Maths as their optional subject.
- d) To display a name list of all those students who have average more than 75.
- e) Remove the student whose admission no is 1009.