25MCPC507

MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

(A Unit of Rajalaxmi Education Trust®, Mangalore)
Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE, New Delhi
Accredited by NAAC with A+ Grade & ISO 9001:2015 Certified Institution

Model Question Paper

First Semester MCA Degree Examination, 2025-26

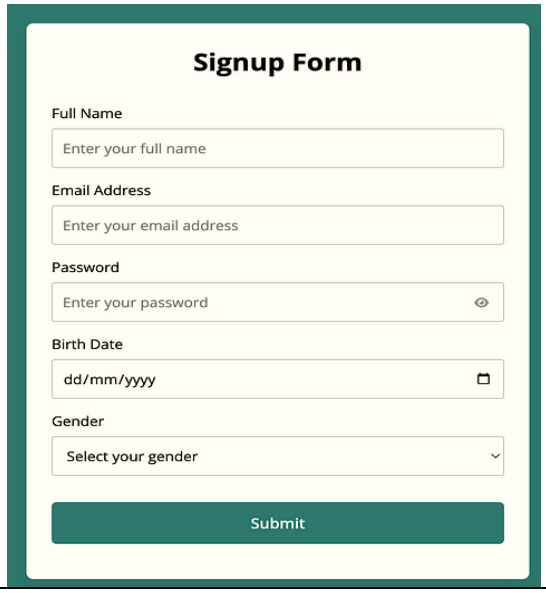
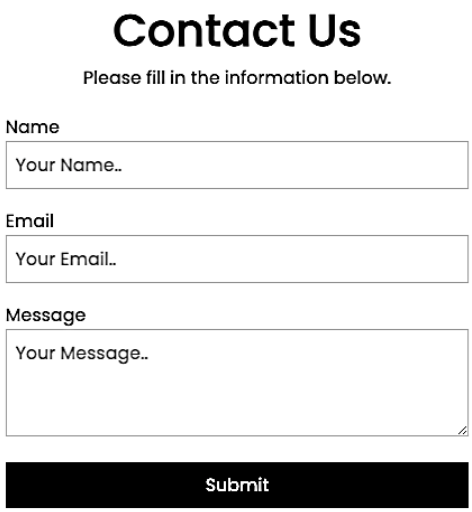
Web Technologies

Time: 3 Hours **Max. Marks: 100**

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M: Marks, L: RBT (Revised Bloom's Taxonomy) level, C: Course outcomes.

<table>
<tr><th colspan="2">Module -1</th><th>M</th><th>L</th><th>C</th></tr>
<tr><td rowspan="3">Q1</td><td>a.</td><td>Convert the below code into a HTML semantic structure.
Also differentiate between non-semantic and semantic HTML structures.
<div>
<h1>Welcome to My Blog</h1>
</div>
<div>
<h2>About Me</h2>
<p>I am a web developer sharing my journey. </p>
</div>
<div>
<p>© 2025 My Blog</p>
</div></td><td>10</td><td>L3</td><td>CO1</td></tr>
<tr><td>b.</td><td>Develop an HTML program to create a class TIMETABLE.
<table><tr><th colspan="6">Time Table</th></tr><tr><td rowspan="6">Hours</td><td>Mon</td><td>Tue</td><td>Wed</td><td>Thu</td><td>Fri</td></tr><tr><td>Math</td><td>Science</td><td>Math</td><td>Science</td><td>Arts</td></tr><tr><td>Math</td><td>Science</td><td>Math</td><td>Science</td><td>Arts</td></tr><tr><td colspan="5">Lunch</td></tr><tr><td>Math</td><td>Science</td><td>Math</td><td rowspan="2">Project</td></tr><tr><td>Math</td><td>Science</td><td>Math</td></tr></table></td><td>10</td><td>L3</td><td>CO1</td></tr>
<tr><td colspan="5">OR</td></tr>
<tr><td rowspan="2">Q2</td><td>a.</td><td>Utilize the basic structure of a table in HTML, including rows and cells to describe how it works, for the given example.
<table><tr><th colspan="4">STUDENTS DETAILS</th></tr><tr><th>NAME</th><th>EMAIL</th><th>MOBILE</th><th>LOCATION</th></tr><tr><td>Aruna</td><td>aruna@gmail.com</td><td>8456254367</td><td>Delhi</td></tr><tr><td>Bhavishya</td><td>bhavishya@gmail.com</td><td>9878354623</td><td>Kolkata</td></tr><tr><td>Charan</td><td>charan@gmail.com</td><td>7876453627</td><td>Mumbai</td></tr></table></td><td>10</td><td>L3</td><td>CO1</td></tr>
<tr><td>b.</td><td>Develop an HTML code to design the below form.
Add New User
Name:
Age:
Email:
Role: Admin
Gender: Male Female Other
I agree to the Terms and Conditions
Submit Reset</td><td>10</td><td>L3</td><td>CO1</td></tr>
</table>

Module- 2					
Q3	a.	Build an HTML code to show the different ways by which we can insert CSS in an html document for the given design constraints: • The **<h1>** appears in red with underline (Inline CSS. • The **<h2>** appears in blue (Internal CSS) • The first **<p>** appears in green (Internal CSS) • The second **<p>** appears in purple with underline (External CSS)	10	L3	CO2
	b.	Make use of CSS selectors and create a webpage that contains a navigation menu, a main content section, and a footer.	10	L3	CO2
OR					
Q4	a.	Apply external style CSS selectors to develop a web page to group <p> <h1> <h2> tags and make the content bold, use unique name for text elements to make it red color.	10	L3	CO2
	b.	Develop a styled webpage that demonstrates various CSS text styling properties. Apply the following styles: • The <h1> heading should have a shadow effect. • The <h2> subheading should be center-aligned, in uppercase • The <p> content have a letter spacing of 3px.	10	L3	CO2
Module – 3					
Q5	a.	Develop a webpage with an image overlay effect using CSS. Apply the following styles: • Create an image container where text appears as an overlay when hovering over the image. • The overlay text should have a semi-transparent dark background and appear in the center of the image.	10	L3	CO3
	b.	Develop a **webpage layout** using CSS **float** property to display the following elements in a structured manner: • A **left-aligned sidebar** (200px width) with a light gray background. • A **main content area** next to the sidebar that takes the remaining width. • A **right-aligned image** inside the main content that floats to the right of the text. • Ensure proper **clearing** of floated elements to maintain layout stability.	10	L3	CO3
OR					
Q6	a.	Utilize the CSS float properties and illustrate the various float methods.	10	L3	CO3
	b.	Develop a product showcase webpage where images and descriptions are arranged side by side using the CSS float property. • Each product consists of an image (float left) and a description (float right). • Display three products stacked vertically, each with its own image and text. • Ensure that the layout does not break by properly handling clearfix to prevent overlap. • Add a border and padding to each product section for better readability.	10	L3	CO3
Module – 4					

Q7	a.	Implement an inline JavaScript function that determines if a given number is prime or not. Accept number from a text boxes and display the message as an alert is the number is prime or not.	10	L3	CO4
	b.	Build a document page with the following fields and validate them using regular expressions. 	10	L3	CO4
		OR			
Q8	a.	Build a document page with the following fields and validate them using regular expressions. 	10	L3	CO4
	b.	Develop a HTML code with an inline JavaScript function to calculate the sum of three numbers. Accept numbers from three different text boxes and display the sum in fourth text box.	10	L3	CO4
		Module – 5			
Q9	a.	Develop a PHP program to check the user credentials, whether they are correct are not. If the credentials are correct then the user will be redirected to another page?	10	L3	CO5
	b.	Develop an application to send an email using PHP.	10	L3	CO5
		OR			
Q10	a.	Develop a PHP code to create a connection between PHP and My SQL. Explain the steps involved in detail.	10	L3	CO5
	b.	Implement a PHP program to retrieve HTML form data with PHP.	10	L3	CO5

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