

**RV University**  
**School of Computer Science and Engineering**  
**B.Tech(Hons) Degree Examination-January 2025**

Semester : I

Course Code : CS1307

Course Title : Web Fundamentals and UX Design

Duration : 2 Hours

Max. Marks: 30

**Instructions to students:**

**All Questions are Compulsory**

Sl. No.	PART A - Max Marks(10)	Marks	L1-L6	CO
1.	<p><b>a.</b> Alice is trying to access a website using her web browser. She enters the website's domain name in the address bar. Describe the process of how her computer resolves the domain name to an IP address and accesses the website.</p> <p><b>b.</b> Mark is designing a website with hyperlink to his social media page, he wants to apply a CSS rule to set the color of the article element to blue color and font size to 20px, but only if the article element is a direct child of the section element? Which CSS selector Mark should use for this and write the CSS rule for it.</p> <p>&lt;section&gt;This is a division that explain contextual selectors in CSS</p> <p>&lt;article&gt;This is the first content inside a section&lt;/article&gt;</p> <p>&lt;div&gt;&lt;article&gt;This is the second content inside a section&lt;/article&gt;</p> <p>&lt;/div&gt; &lt;/section&gt;</p>	<p>3</p> <p>2</p>	<p>L2</p> <p>L3</p>	<p>CO1</p> <p>CO2</p>
2.	<p><b>a.</b> List and explain the different ways in which CSS can be integrated into the web page with an example?</p> <p><b>b.</b> Imagine you are working on a responsive web design project using Bootstrap. You are tasked with organizing the layout of a new webpage to ensure it looks great on both desktop and mobile devices. Explain how do you structure the page using different Bootstrap container.</p>	<p>3</p> <p>2</p>	<p>L2</p> <p>L2</p>	<p>CO2</p> <p>CO4</p>



Sl. No.	PART B – Max Marks(20)	Marks	L1-L6	CO
3.	a. Design a web page that depicts a business application. Ensure your web page uses following elements. A. Header B. Navigation Bar C. Website Content (that consists of a paragraph about the company, services provided as unordered list) D. Footer (consist of contact information of the company)	5	L3	CO1
	b. Write a JavaScript program using function that reads input number n from the user and find whether a number from 1 to n is even or odd and print a suitable message on the web browser. Example output: if n is 3, Number 1 is odd Number 2 is even Number 3 is odd	5	L3	CO3
4.	a. Design a simple HTML form for a student to register for an inter sports competition. Ensure there are following components in the form: Name, Email ID, List box to specify the sports in which a student want to participate, submit button to register.	5	L3	CO1
	b. Ann is part of a product development team, she is tasked with creating a new mobile application. She realizes that understanding user experience (UX) design is crucial for building the app. Mention the definition and importance of UX design that will assist her in this task.	5	L2	CO4

### Course Outcomes

1. Build static web pages using HTML (HyperText Markup Language)
2. Apply CSS (Cascading Style Sheets) to the web pages to create visually appealing designs
3. Develop interactive and dynamic web pages using JavaScript incorporating event handling, DOM manipulation to enhance user experience and interactivity
4. Apply Bootstrap to design and develop responsive web applications

Marks Distribution									
L1	L2	L3	L4	L5	L6	CO1	CO2	CO3	CO4
	13	17				13	5	5	7