

Member ID: _____

Time: _____

Rank: _____



Fundamentals Of Web Design (415)

REGIONAL 2025

Production:

Multiple Choice (25 @ 2 points each) _____ (50 points)

Application _____ (235 points)

TOTAL POINTS _____ (285 points)

Test Time: 90 minutes

GENERAL GUIDELINES:

Failure to adhere to any of the following rules will result in disqualification:

1. Member must hand in this test booklet and all printouts if any. Failure to do so will result in disqualification.
2. No equipment, supplies, or materials other than those specified for this event are allowed in the testing area. No previous BPA tests and/or sample tests (handwritten, photocopied, or keyed) are allowed in the testing area.
3. Electronic devices will be monitored according to ACT standards.

MULTIPLE CHOICE

Directions: Identify the letter of the choice that best completes the statement or answers the question.

1. Which HTML5 element is used to define the title of a document?
 - A. <title>
 - B. <head>
 - C. <header>
 - D. <meta>
2. Which of the following is NOT a CSS3 pseudo-class?
 - A. :hover
 - B. :first-of-type
 - C. :before
 - D. :previous
3. In HTML5, which element is used to represent the result of a calculation?
 - A. <output>
 - B. <result>
 - C. <calc>
 - D. <value>
4. Which property in CSS3 is used to change the font of an element?
 - A. font-family
 - B. font-style
 - C. font-type
 - D. font-weight
5. What does the figure tag in HTML5 represent?
 - A. A mathematical figure
 - B. A figure image
 - C. A self-contained content, often with a caption
 - D. A graphical figure

6. In CSS3, which property is used to create space between the border of an element and its content?
 - A. margin
 - B. padding
 - C. spacing
 - D. border-spacing
7. Which of the following is a new form element introduced in HTML5?
 - A. <datalist>
 - B. <input>
 - C. <form>
 - D. <textarea>
8. What is the default display value of the <div> element in HTML5?
 - A. inline
 - B. block
 - C. inline-block
 - D. flex
9. Which CSS property can be used to control the flow of text around an image?
 - A. text-align
 - B. float
 - C. wrap
 - D. overflow
10. What is the purpose of the required attribute in HTML5 forms?
 - A. It specifies that the input field must be filled out before submitting
 - B. It makes the input field optional
 - C. It specifies a default value for the input field
 - D. It validates the format of the input field
11. Which HTML5 element is used to group options in a dropdown list?
 - A. <group>
 - B. <fieldset>
 - C. <optgroup>
 - D. <select>
12. What is the purpose of the meta charset="UTF-8" declaration in HTML5?
 - A. It links to a stylesheet
 - B. It specifies the character encoding for the document
 - C. It sets the title of the document
 - D. It defines the viewport settings

13. Which CSS3 property is used to apply multiple background images to an element?
 - A. multi-background
 - B. background-repeat
 - C. background-image
 - D. background
14. In HTML, what is the purpose of the tag?
 - A. To emphasize text with italics
 - B. To bold the text
 - C. To underline text
 - D. To add a comment in the code
15. Which HTML attribute is used to specify a tooltip text?
 - A. tooltip
 - B. alt
 - C. title
 - D. hover
16. Which CSS3 property is used to change the appearance of a list marker?
 - A. list-style-image
 - B. marker-style
 - C. list-type
 - D. marker-image
17. What is the correct HTML5 element for defining important text?
 - A.
 - B. <important>
 - C.
 - D. <mark>
18. Which CSS property controls the amount of space between elements in a flex container?
 - A. flex-gap
 - B. space-between
 - C. justify-content
 - D. gap
19. In HTML5, which tag is used to create a dialog box or window?
 - A. <modal>
 - B. <dialog>
 - C. <popup>
 - D. <>window>

20. Which HTML5 tag is used to create a multi-line text input field?
- A. <input type="textarea">
 - B. <textarea>
 - C. <multiline>
 - D. <input multiline>
21. In CSS3, which property is used to control the order of flex items?
- A. order
 - B. position
 - C. flex-order
 - D. z-index
22. Which HTML5 element is used to specify a term in a description list?
- A. <dl>
 - B. <dd>
 - C. <dt>
 - D.
23. Which CSS3 property is used to change the text alignment of an element?
- A. text-transform
 - B. text-align
 - C. align-text
 - D. text-direction
24. In HTML5, which attribute is used to specify that an audio or video file should start playing as soon as it is ready?
- A. autoplay
 - B. play
 - C. start
 - D. loop
25. Which CSS3 property is used to change the background color of a specific table cell?
- A. cell-bgcolor
 - B. background-color
 - C. td-background
 - D. cell-color

You are tasked with creating a single-page website for a fictional adventure travel company called "**Adventure Trekking Co.**". The company specializes in organizing trekking and hiking expeditions to some of the most breathtaking destinations around the world. The webpage should be designed using modern web development practices, including Flexbox, Grid layout, responsive design principles, and CSS3 transitions. Participants must create a visually engaging, user-friendly, and responsive website that highlights the company's dedication to outdoor adventures and safe trekking experiences.

Requirements:

1. Website Structure:

○ Header:

- The header must include the company's logo (image name: trekking-logo.png) on the left, with navigation links aligned to the right. Flexbox should be used to ensure proper alignment.
- The navigation should consist of the following links:
 - Home
 - Destinations
 - Guides
 - Contact Us
- The header background color should be a deep forest green (#2F4F4F) with white text. Navigation links should have hover effects, changing the text color to a lighter shade.

○ Hero Section:

- The hero section should feature a split-screen layout with a background image on the left (you provided image.png for this section, which will be renamed to hero-trekking.png) and an introductory text block on the right. The text should include:
 - **Title:** "Explore the World on Foot"
 - **Subtext:** "Join our expert-led treks to discover nature's most stunning landscapes."
- Use Flexbox to split the screen and ensure the text block is centered vertically.

○ Main Content Sections:

▪ Destinations Section:

- This section should use a grid layout to display four key trekking destinations. Each destination should include:
 - An image (e.g., himalayas.jpg, andes.jpg, rockies.jpg, alps.jpg).
 - The destination name and a brief description. For example:
 - **Himalayas:** "Experience the majesty of the world's highest peaks with our guided treks through the Himalayas. Perfect for both novice and experienced trekkers."

- **Andes:** "Journey through the ancient trails of the Andes, where every step reveals breathtaking vistas and a deep cultural history."
- **Rockies:** "Explore the rugged beauty of the Rockies, with diverse trails that offer something for every adventurer."
- **Alps:** "Discover the stunning Alpine landscapes, where pristine nature meets challenging and rewarding trekking routes."
- **Guides Section:**
 - This section should use a three-column layout, where each guide's image is shown above the guide's name and description, ensuring a clean and organized display. The text should introduce the company's expert guides, including:
 - **Title:** "Our Guides"
 - **Text:** "Our experienced guides are the heart of Adventure Trekking Co. They bring a wealth of knowledge, ensuring your trek is safe, enjoyable, and unforgettable. With backgrounds in mountaineering, wilderness survival, and first aid, our guides are equipped to lead you through any terrain."
 - Each guide's image (e.g., guide1.jpg, guide2.jpg, guide3.jpg) should be displayed with the guide's name and a brief bio beneath the image.
- **Contact Us Section:**
 - This section should use a full-width layout with a map on the left side (image: map.png) and a contact form on the right. The form should include:
 - **Title:** "Get in Touch"
 - **Text:** "Ready to plan your next adventure? Reach out to us for more information on our treks, guides, and available dates."
 - A contact form with the following fields:
 - Name: A required text input field.
 - Email: A required email input field.
 - Message: A required textarea for the user's message.
 - A "Send Message" button, styled to stand out against the background.
- **Footer:**
 - The footer should include the following text content structured for clarity:

- "Adventure Trekking Co. | 789 Mountain Path, Explorer City, Earth | Phone: (123) 456-7890 | Email: info@adventuretrekking.com"
- "Follow us on Facebook, Instagram, YouTube."
- "© 2024 Adventure Trekking Co. All rights reserved."

2. Design and Interactivity:

- Use **Flexbox** for the header and hero section layouts.
- Use **CSS Grid** for the destinations section to create a responsive layout that adjusts based on screen size.
- Implement **CSS transitions** for hover effects on navigation links, images, and buttons, enhancing interactivity.
- Ensure the website is **responsive**, displaying correctly on various devices, from mobile phones to desktop computers.
- Apply **box-shadow** and **border-radius** to images and text blocks to create a modern, clean look.

3. Functionality:

- Ensure all images have appropriate **alt text** for accessibility.
- The contact form fields should be properly labeled, and the form should be functional and accessible.
- Test the website across different browsers (Chrome, Firefox, Edge) to ensure compatibility and consistent user experience.

Explanation:

- Header and Navigation: The logo is on the left, and the navigation links are on the right, aligned using Flexbox. The header has a deep forest green background, and the links change color on hover.
- Hero Section: The hero section uses a split-screen layout, with the provided image on the left and a text block on the right. Flexbox is used to center the text vertically.
- Destinations Section: This section features a grid layout displaying four key trekking destinations, each with an image, title, and description.
- Guides Section: The section uses a three-column grid layout, where each guide's image is displayed above their name and bio, ensuring a clean and organized layout.
- Contact Us Section: A full-width layout is used, with a map image on the left and a contact form on the right.
- Footer: The footer contains the company's contact information and social media links, styled consistently with the rest of the page.

Rubric (250 Points Total):

Task	Criteria	Points
Header Structure	Proper use of Flexbox to align the logo and navigation links; deep forest green background with white text.	15
Navigation	Includes all required navigation links: Home, Destinations, Guides, Contact Us, with hover effects.	15
Hero Section	Split-screen layout with a background image on the left and centered text block on the right.	20
Destinations Section	Grid layout for displaying four key destinations with images, titles, and descriptions.	30
Guides Section	Two-column layout with text on the left and images of guides on the right.	25
Contact Us Section	Full-width layout with a map on the left and a contact form on the right, including all required fields.	25
Footer	Footer includes correctly formatted text content for contact details, social media links, and a copyright notice.	20
CSS Transitions	Implementation of CSS transitions for hover effects on navigation, images, and buttons, enhancing user interaction.	20
Responsive Design	Website is fully responsive and adapts correctly to different screen sizes using media queries.	30
Code Quality	Clean, well-organized, and commented code with proper indentation and no unnecessary redundancy.	20
Accessibility	All images have alt text, form fields are labeled, and the site adheres to accessibility standards.	15
Cross-Browser Compatibility	Website displays and functions correctly in multiple browsers (Chrome, Firefox, Edge).	20
Creativity and Design	The overall design is cohesive, visually appealing, and effectively communicates the theme of adventure trekking.	20
Total		250