FUNDAMENTALS OF WEB DESIGN (405)

REGIONAL – 2019

Total Points:

Multiple Choice (20 @ 10 points each) _____ (200 points)

Application _____ (280 points)

TOTAL POINTS _____ *480 Points*

Failure to adhere to any of the following rules will result in disqualification:
1. **Contestant must hand in this test booklet and all printouts. 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 or facsimile (handwritten, photocopied, or keyed) are allowed in the testing area.**
3. **Electronic devices will be monitored according to ACT standards.**

No more than ten (10) minutes orientation
No more than ninety (90) minutes testing time
No more than ten (10) minutes wrap-up

MULTIPLE CHOICE
Identify the letter of the choice that best completes the statement or answers the question.

1. What tag is commonly used to create a link within a webpage?
   a.
   b. <hr>
   c. <link>
   d. <a>

2. Which of the following is the correct tag to embed an internal cascading stylesheet into a webpage?

   a. <import>
   b. <embed>
   c. <link>
   d. **<style>**

3. What attribute is given to a link if you want it to open in a new window?
   a. <newtab>
   b. <target-tab>
   c. <target>
   d. <tab>

4. HTML stands for:
   a. Hyperlink Technology Multi-Language
   b. Hypertext Multi-Language
   c. Hyperlink Multi-Language
   d. Hypertext Markup Language

5. A user agent can be or is contained within:
   a. A web browser like Microsoft Internet Explorer, or Mozilla Firefox.
   b. A piece of software that can correctly parse and render HTML code.
   c. Search engine robots like Google-bot used to crawl and index all Internet web sites.
   d. All of the above

6. Which line in the following block of code is invalid HTML?
   a. <div class="book" id="design-is-a-job">
   b. <h2 class="title">Design Is A Job</h2>
   c. <p class="author">Mike Monteiro</p>
   d. </div>

7. The best way to emphasize text in a semantic manner is to
   a. Use <span> tags with a CSS class attribute
   b. Use <b> tags
   c. Use <strong> tags
   d. Use exclamation points

8. Which CSS property is used to set the background color of an element?
   a. Bg
   b. Bgcolor
   c. Color
   d. None of the above

9. A _____ website structure connects webpages in a treelike structure.
   a. Hierarchical
   b. Linear
   c. Webbed
   d. Nested

10. Which of the following is *not* a critical part of a website's visual experience?
    a. Animation
    b. Usability
    c. Accessibility
    d. Layout

11. Choose the CSS property that describes specific and general font names.
    a. font-family
    b. font-text
    c. font-style
    d. font-names

12. If an element contains text or another element, it is marked using a _____ tag set in which an opening tag and a closing tag enclose the element content.
    a. Double
    b. one-sided
    c. two-sided
    d. Single

13. Which of the following HEX RGB colors can be expressed using only three characters?
    a. #F6A244
    b. #FFF8DC
    c. #00CCGG
    d. #021FCD

14. Choose the correct way to horizontally center text within a <p> element.
    a. CSS p {align:center}
    b. CSS p {text-align: center}
    c. HTML <p align="center">
    d. HTML <center>

15. The hexadecimal value #00FF00 stipulates a _____ color.
    a. Red
    b. Green
    c. Yellow
    d. Blue

16. Sections of most commercial Web sites are off-limits *except* to subscribers and registered customers and have a(n) Web page that users must go through to get to the off-limits area.
    a. password key
    b. Protected
    c. password-protected
    d. protected-entry

17. Which of the following is *not* a Web design recommended practice?
    a. Design your site to be easy to navigate
    b. Design colorful pages because they appeal to everyone
    c. Design your pages to load quickly
    d. Limit the use of animate items

18. What is the correct HTML for inserting an image?
    a. <img href="image.gif" alt="MyImage">
    b. <image src="image.gif" alt="MyImage">
    c. <img src="image.gif" alt="MyImage">
    d. <img alt="MyImage">image.gif </img>

19. Which of the following can be a CSS selector?
    a. A HTML element
    b. A class name
    c. An id name
    d. All of the above

20. Which of the following relative pathnames is interpreted as "the index.htm file is in the folder one level up in the folder tree from the current file"?
    a. ./index.htm
    b. ../index.htm
    c. /index.htm
    d. _/index.htm

Application
During this exercise, you are only allowed to use **Notepad.** The use of any other type of text editor such as Notepad++ or of web development tools such as Dreamweaver or Expression Web will result in immediate disqualification from this event.

A screen capture of the expected end result is included for your inspection and to be used as a guide for completing this exercise.

When complete, print all code generated for this exercise (HTML and Style Sheet). Also print a screen capture (using the snipping tool) of your finished work as it appears in the web browser so that it may be used for grading purposes.

Submit all printed pages, along with your copy of this test, and your answer form to your proctor.

Your task is to regenerate the web page shown in the screen capture provided in this packet, using HTML5, CSS and the parameters specified below.

1. Overall Specifications
   a. The documents must be valid HTML5.
   b. The documents must be styled with an external cascading style sheet.
      i. ALL styling <u>MUST</u> be done with the style sheet. Using tags or style attributes within tags is **PROHIBITED**.
   c. <u>The document **must not use tables** for any sort of layout or positioning.</u>

2. General Page Specifications
   a. Title should have **Your Contestant Number – Fundamentals of Web Design.**
   b. The opening HTML element must include the language attribute with the value for the English language.
   c. The Head tag must have a meta element with the character set attribute with value of UTF-8.
   d. Background color - #AC9C80
   e. Text color - #000033
   f. The default font for the page body needs to be "Times New Roman" with fall back to Times and then serif.
   g. The default font size needs to be 12 pixels.
   h. The Heading Class style must have the following style attributes:
      i. "Times New Roman" with fall back to Times and then serif
      ii. Font size - 36 pixels
      iii. Font color - #FF0000
      iv. Font weight - bold

3. Page Content
   a. **The BPA Cares Program** – heading class style

   b. Type the following paragraph:
      i. **A BPA chapter aligned with the goals and mission of Business Professional of America is concerned with service. Business Professionals of America recommends chapters become involved in one or more of the BPA Cares programs it offers. Participation in this program means that members are engaging in worthwhile projects while having the opportunity to receive recognition from the national organization.**

   c. Type the following paragraph:
      i. **Chapter Service Learning Awards:** - Bold Font
      ii. **The purpose of the Service Learning Awards Program is to encourage individuals and chapters to be involved in their community through service learning. There are four awards your chapter can work towards each year. They are:**

   d. Type the following Unordered List:
      1. **Community Service Award**
      2. **Environmental Action/Awareness Award**
      3. **Safety Awareness Award**
      4. **Special Olympics Award**

   e. Type the following paragraph:
      i. **Community Service Award: -** Bold Font
      ii. **The purpose is to encourage local chapters to become actively involved in community betterment, school improvement, and election-year activities; to encourage local chapters to develop ways of involving their members in these kinds of activities; and to recognize chapters for their involvement in engaged citizenry. All applicants must be in good standing with Business Professionals of America. This award is open to members in the Middle Level, Post-Secondary and Secondary Divisions who have completed at minimum 100 service hours or contributed at minimum $500.00 to a service organization.**

    f. Type the following paragraph:
        i. **Environmental Action/Awareness Award:** - Bold Font
       ii. **The purpose is to promote the image of Business Professionals of America (BPA) as an organization that is aware of current environmental issues; to motivate all levels and Divisions of BPA to participate in activities that prevent any further damage to our environment; and to encourage current chapters to implement plans of action to embrace the idea of a "Green" society. All applicants must be in good standing with Business Professionals of America. This award is open to members in the Middle Level, Post-Secondary and Secondary Divisions who have completed at minimum 100 service hours or contributed at minimum $500.00 to a service organization.**

    g. Type the following paragraph:
        i. **Safety Awareness Award: -** Bold Font
       ii. **The purpose is to encourage and recognize local chapters for their involvement and development of safety programs. All applicants must be in good standing with Business Professionals of America. This award is open to members in the Middle Level, Post-Secondary and Secondary Divisions who have completed at minimum 100 service hours or contributed at minimum $500.00 to a service organization.**

    h. Type the following:
        i. **Special Olympics Award:** Bold Font
       ii. **The purpose is to recognize local members involved with Special Olympics. All applicants must be in good standing with Business Professionals of America. This award is open to members in the Middle Level, Post-Secondary and Secondary Divisions who provide a minimum of 100 hours of service or a $500.00 donation to Special Olympics.**

  i. Create an Anchor for each of the unordered list items pointing to the correct paragraphs on this page. They should point to the bolded part of the Paragraph they are referring to.
       i. Call the Anchors
          1. community
          2. environmental
          3. safety
          4. special

Sample:

The BPA Cares Program

A BPA chapter aligned with the goals and mission of Business Professional of America is concerned with service. Business Professionals of America recommends chapters become involved in one or more of the BPA Cares programs it offers. Participation in this program means that members are engaging in worthwhile projects while having the opportunity to receive recognition from the national organization.

Chapter Service Learning Awards: The purpose of the Service Learning Awards Program is to encourage individuals and chapters to be involved in their community through service learning. There are four awards your chapter can work towards each year. They are:

- Community Service Award
- Environmental Action/Awareness Award
- Safety Awareness Award
- Special Olympics Award

Community Service Award: The purpose is to encourage local chapters to become actively involved in community betterment, school improvement, and election-year activities; to encourage local chapters to develop ways of involving their members in these kinds of activities; and to recognize chapters for their involvement in engaged citizenry. All applicants must be in good standing with Business Professionals of America. This award is open to members in the Middle Level, Post-Secondary and Secondary Divisions who have completed at minimum 100 service hours or contributed at minimum $500.00 to a service organization.

Environmental Action/Awareness Award: The purpose is to promote the image of Business Professionals of America (BPA) as an organization that is aware of current environmental issues; to motivate all levels and Divisions of BPA to participate in activities that prevent any further damage to our environment; and to encourage current chapters to implement plans of action to embrace the idea of a Green; society. All applicants must be in good standing with Business Professionals of America. This award is open to members in the Middle Level, Post-Secondary and Secondary Divisions who have completed at minimum 100 service hours or contributed at minimum $500.00 to a service organization.

Safety Awareness Award: The purpose is to encourage and recognize local chapters for their involvement and development of safety programs. All applicants must be in good standing with Business Professionals of America. This award is open to members in the Middle Level, Post-Secondary and Secondary Divisions who have completed at minimum 100 service hours or contributed at minimum $500.00 to a service organization.

Special Olympics Award: The purpose is to recognize local members involved with Special Olympics. All applicants must be in good standing with Business Professionals of America. This award is open to members in the Middle Level, Post-Secondary and Secondary Divisions who provide a minimum of 100 hours of service or a $500.00 donation to Special Olympics.

APPLICATION RUBRIC

HTML	Point Value	Score
Correct DOCTYPE declaration	5	
<head> tag properly placed and used	5	
<title> tag includes contestant's BPA membership number	10	
<html lang="en">	5	
<meta charset="UTF-8">	5	
<link> tag reference to a CSS style sheet	10	
<body> tag has no attributes	5	
<h1> The BPA Cares Program	5	
Paragraph one Typed Correctly – no mistakes *"A BPA chapter aligned with the goals and mission of…"*	15	
Paragraph two Typed Correctly – no mistakes *"Chapter Service Learning Awards: The purpose of the Service Learning Awards Program…"*	15	
Paragraph three Typed Correctly – no mistakes *"Community Service Award: The purpose is to encourage local chapters to become…"*	15	
Paragraph four Typed Correctly – no mistakes *"Environmental Action/Awareness Award: The purpose is to promote the image of Business…"*	15	
Paragraph five Typed Correctly – no mistakes *"Safety Awareness Award: The purpose is to encourage and recognize local chapters for their…"*	15	
Paragraph six Typed Correctly – no mistakes *"Special Olympics Award: The purpose is to recognize local members involved with Special Olympics."*	15	
The following lines are BOLD in their paragraphs: Chapter Service Learning Awards Community Service Award Environmental Action/Awareness Award Safety Awareness Award Special Olympics Award	25	
The Following is an unordered List: Community Service Award Environmental Action/Awareness Award Safety Awareness Award Special Olympics Award	20	
Anchor Tag is used in the unordered list with the tags community, environmental, safety, special	20	
Correct coding for unordered list	5	
Anchor landing tag looks used correctly for the tags community, environmental, safety, special	20	
HTML TOTAL	**230**	

CSS		
Style Sheet is external: (*can be named anything*)	10	
body { width: 1024 px	5	
body { font: 'Times New Roman' then Times then serif	5	
body { background-color: # AC9C80	5	
body { color: #000033	5	
Class Style – (*can be named differently*)		
.Heading { font-size: 36px	5	
.Heading {font-family: 'Times New Roman' then Times then serif	5	
.Heading { color: #FF0000	5	
.Heading { font-weight: bold	5	
CSS TOTAL	**50**	
FORMATTING	**Point Value**	**Score**
Deduct 5 points for each discrepancy, up to 15 points.	**-15**	
Application Total	**280**	
Objective Total (from page 2)		
EVENT TOTAL		