

Fundamentals of Web Design (405)

Regional – 2020

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

Application _____ (260 points)

TOTAL POINTS _____ (***460 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

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MULTIPLE CHOICE

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

1. What symbol is used in a closing tag in HTML?
 - a. /
 - b. #
 - c. \
 - d. &

2. What's the name of the main international standards body that publishes HTML specification?
 - a. Internet Engineering Task Force (IETF)
 - b. New Consortium of Internet Services (NCIS)
 - c. World Internet Property Organization (WIPO)
 - d. World Wide Web Consortium (W3C)

3. What color system do you use for web based work?
 - a. CMYK
 - b. WYSIWYG
 - c. RBG
 - d. RGB

4. Which of the following is a valid image type you would use on a website?
 - a. .psd
 - b. .eps
 - c. .png
 - d. .rst

5. What is a benefit of using CSS?
 - a. Allows secure web browsing
 - b. Allows anonymous web browsing
 - c. Provides multiple web page formatting
 - d. Provides plug-in updates to a web page

6. How do you display a border like this: The top border = 10 pixels, the bottom border = 5 pixels, the left border = 20 pixels, and the right border = 1 pixel?
 - a. border-width = 1 pixels 5 pixels 20 pixels 10 pixels
 - b. border-width = 10 pixels 1 pixels 5 pixels 20 pixels
 - c. border-width= 5 pixels 20 pixels 10 pixels 1 pixels
 - d. border-width= 20 pixels 10 pixels 5 pixels 1 pixels

7. Hexadecimal is also known as
 - a. base 2
 - b. base 8
 - c. base 10
 - d. base 16

8. What does HTML stand for?
 - a. HyperText Meta Language
 - b. HyperText Markup Language
 - c. HyperText Transfer Protocol Language
 - d. HyperText Meta Location

9. The _____ is a very useful unit as it scales with the size of the font with the web browser and device used to view the web page.
 - a. em
 - b. point
 - c. pixel
 - d. picas

10. Which of the following characters is invalid for use in a URL?
 - a. Colon (:)
 - b. Hash (#)
 - c. Forward Slash (/)
 - d. Ampersand (&)

11. The _____ is very important for user agents that Do NOT display images and web browsers that are designed for users of Braille and Speech Devices.
 - a. src attribute
 - b. alt attribute
 - c. ita attribute
 - d. file attribute

12. Which image format supports an alpha channel (semi-transparency)?
 - a. GIF
 - b. PNG
 - c. JPG
 - d. TIFF

13. When was the original HTML specifications developed by Tim Berners-Lee?
 - a. 2000
 - b. 1980
 - c. 1990
 - d. 1970

14. The World Wide Web is a collection of HTML documents, images, videos, and sound files that can be linked to each other and accessed over the Internet using a protocol called _____.
 - a. FTP
 - b. IP
 - c. HTML
 - d. HTTP

15. Which website would be a secure website?
 - a. <https://www.mybankinfo.com/login>
 - b. <https://www.mybankinfo.com/login>
 - c. <http://www.mybankinfo.com/login>
 - d. <http://www.mybankinfo.com/login/secure>

16. Which CSS rule would you apply to change the width of an image?
 - a. width=200 pixels;
 - b. width:200 pixels;
 - c. width: 200ec;
 - d. width: 200%;

17. Which has the highest precedence?
 - a. External CSS
 - b. Internal CSS
 - c. Embedded CSS
 - d. Inline CSS

18. Which is the best website structure for a step-by-step instructional guide?
 - a. Random
 - b. Linear
 - c. Hierarchical
 - d. Star

19. Which tag is added to image metadata to comply with the requirements of the Americans with Disabilities Act (ADA)?
 - a. src
 - b. alt
 - c. href
 - d. span

20. How many heading levels are there in HTML?
 - a. 9
 - b. 6
 - c. 2
 - d. 7

Applications

You have been asked to create a website for a small company called “Russo’s Pizzeria”. You are going to create a three-page website for the company; first page just giving information about the company, the second page organized as a menu, and the third page to order the pizza. In this application, you will be working on the first page of the website - an informative page.

During this exercise, you are only allowed to use **Notepad**. The use of any other type of text editor such as Notepad++ or for 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 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 HTML 5, CSS, and the parameters specified below.

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

2. General Pages Specifications
 - a. Title should have **Your constant number - Fundamentals of Web Design**
 - b. Before the closing head tag, create a comment in the CSS that says the following:
“Formatting for the Home page for Russo’s Pizzeria”
 - c. Background color is rgb (128, 0, 0)
 - d. Text Color #000000
 - e. The width of the page body needs to be 1024 pixels
 - f. The default font for page body needs to be ‘Times New Roman’ with a fall back on “times” and another fall back on “serif”
 - g. Create a container using an ID that will hold all the information on the page. Use the following properties for the style on the page:
 - i. background color: #FFFFFF
 - ii. Top Margin: 20 pixels
 - iii. Right Margin: 100 pixels
 - iv. Bottom Margin: 20 pixels
 - v. Left Margin: 100 pixels
 - vi. Padding: 25 pixels

- h. Use a navigation tag to apply properties to the hyperlinks for the web page:
 - i. text align set to center
- i. Images must have the following style properties
 - i. Set the width of the image to 500 pixels
 - ii. Left Margin set to auto
 - iii. Right Margin set to auto
 - iv. Set the display to a block
- j. Give the horizontal rule the following properties
 - i. Set the border to 1 pixel
 - ii. Set the border color to #800000
 - iii. Set the border to solid
- k. The H2 Headings must have the following
 - i. Set the font size to 24 points
 - ii. Underline the text using CSS
 - iii. Font color to #000080
- l. Set the Paragraphs to the following style properties:
 - i. Set the padding to 30 pixels
 - ii. The font for the paragraphs need to be “Helvetica” with a fall back on “Arial” with a fall back on “sans-serif”

3. Page Content

- a. Between the opening and closing body tags, insert a div tag with the id attribute for the container style. Note, all following HTML elements will be nested inside of this “container” div element.
- a. Place the Russo’s Pizzeria Logo and make sure that it is centered
 - i. Give the alternate text “Russo Pizzeria logo”
- b. Create a navigation bar - Center
 - i. Home | (Use the file name ‘index.html’)
 - ii. Menu | (Use the file name ‘menu.html’)
 - iii. Order (Use the file name ‘order.html’)
- c. Create a horizontal Rule after the navigation
- d. Type the following into a paragraph:

**Welcome to Papa's Pizzeria! Where every pizza is handmade to order!
Our homemade pizza crust is made fresh daily. These classic and specialty Russo's Pizzas originals blend your favorite ingredients to create distinctive and memorable flavor combination. Russo's Pizza has been known for their specialty pizzas, but their traditional pizzas are also a fan favorite as well. Try our amazing specialty pizza's either personal, medium, or family size!**
- e. **AWARDS** - h2
- f. Type the following paragraph

Over the past several decades, Russo’s Pizzeria has won a multitude of awards from the greater Columbus area. Below are a couple are awards Russo’s has one in the past couple years.

- g. Type the following in an unordered list
 - i. **Ohio best Pizzeria, 2018**
 - ii. **National Small Business Award, 2019**
 - iii. **Indie Award, 2017**
 - iv. **Best in Biz Award, 2017**
 - v. **Local Chamber of Commerce, 2019**
 - vi. **Best in Show - Columbus Food Truck Rally, 2019**
- h. **TOP PICKS - h2**
- i. Type the following Paragraph -
If you are having issues figuring out what pizza to eat, listen to our valuable customers. Below are the top five of our specialty pizzas ranked by our regulars.
- j. Create an ordered list:
 - i. **Mediterranean Pizza**
 - ii. **Greek Pizza**
 - iii. **Blue Cheese Prosciutto Pizza**
 - iv. **BST (Bacon- Spinach-Tomato) Pizza**
 - v. **Margherita Pizza**
- k. **HISTORY - h2**
- l. Type the following Paragraph
In 1932, Guiseppe Russo and his younger sister, Aurora started the family business. The both had a passion for cooking and using family recipes to enlighten their guest for various occasions. After multiple years of cooking for friends and family, Guiseppe and Aurora decided to open their own business right in the heart of Columbus, Ohio. Guiseppe and Aurora hope to share their joy and happiness of cooking with the rest of their community.
- m. **TODAY - h2**
Almost 90 years later, Guiseppe and Aurora no longer run Russo's Pizzeria, but there two Grandsons do. Simone and Paolo Russo keep the family memories alive by creating homemade specialty pizzas with the same, old-fashioned, family recipes. Simone and Paolo have taken the traditional pizza that the community has come to love and updated it with specialty pizza ideas. Simone and Paolo have taken common and unique foods and turn them into various types of pizza. With a little twist on the traditional pizza, Russo's Pizza has made it to the top of the Columbus community as the top Specialty Pizzeria in the area.
- n. Create a Horizontal Rule after the Today's Paragraph
- o. Create a new paragraph
 - i. **Use the Copyright symbol code**
 - ii. **2019 Russo's Pizzeria. All rights reserved.**

When finished creating the website, print the code and the screen capture of the browser page. Turn in all printouts and your testing instructions to your proctor.

Sample:

Russo's



Handmade Specialty Pizzas

Pizzeria

Est. 1932

[Home](#) | [Menu](#) | [Order](#)

Welcome to Papa's Pizzeria! Where every pizza is handmade to order! Our homemade pizza crust is made fresh daily. These classic and specialty Russo's Pizzas originals blend your favorite ingredients to create distinctive and memorable flavor combination. Russo's Pizza has been known for their specialty pizzas, but their traditional pizzas are also a fan favorite as well. Try our amazing specialty pizza's either personal, medium, or family size!

AWARDS

Over the past several decades, Russo's Pizzeria has won a multitude of awards from the greater Columbus area. Below are a couple are awards Russo's has one in the past couple years.

- Ohio Best Pizzeria, 2018
- National Small Business Award, 2019
- Small Business Influencer Awards, 2018
- Indie Award, 2017
- Best in Biz Awards, 2018
- Local Chamber of Commerce, 2019
- Best in Show - Columbus Food Truck Rally, 2019

TOP PICKS

If you are having issues figuring out what pizza to eat, listen to our valuable customers. Below are the top five of our specialty pizzas ranked by our regulars.

1. Mediterranean Pizza
2. Greek Pizza
3. Blue Cheese Prosciutto Pizza
4. BST (Bacon-Spinach-Tomato) Pizza
5. Margherita Pizza

HISTORY

In 1932, Guiseppe Russo and his younger sister, Aurora started the family business. The both had a passion for cooking and using family recipes to enlighten their guest for various occasions. After multiple years of cooking for friends and family, Guiseppe and Aurora decided to open their own business right in the heart of Columbus, Ohio. Guiseppe and Aurora hope to share their joy and happiness of cooking with the rest of their community.

TODAY

Almost 90 years later, Guiseppe and Aurora no longer run Russo's Pizzeria, but there two Grandsons do. Simone and Paolo Russo keep the family memories alive by creating homemade specialty pizzas with the same, old-fashioned, family recipes. Simone and Paolo have taken the traditional pizza that the community has come to love and updated it with specialty pizza ideas. Simone and Paolo have taken common and unique foods and turn them into various types of pizza. With a little twist on the traditional pizza, Russo's Pizza has made it to the top of the Columbus community as the top Specialty Pizzeria in the area.

APPLICATION RUBRIC

HTML	Point Value	Score
Correct DOCTYPE declaration	5	
Set the HTML document to English	5	
<head> tag properly placed and used	5	
<title> tag includes contestants BPA membership number	10	
<link> tag reference to a CSS stylesheet	10	
<!--Comment--> tag is used to address this is for business information homepage	10	
<body> tag has no attributes	5	
Place Russo's Logo image "russoLogo.png" and have the image centered with the correct alternate text	5	
<nav> tag and create a navigation bar using the correct file names	10	
<hr> used under the navigation menu and the after the final paragraph after the Today paragraph	10	
<h2> tags have the correct heading titles - all in caps	20	
Have all the text for the paragraphs in <p> tags with no mistakes or misspellings - 5 points taken off for misspellings	30	
Correct coding for unordered list	15	
Correct coding for ordered list	15	
© Russo's Pizzeria. All Rights reserved. In the footer	5	
HTML TOTAL	160	

CSS	Point Value	Score
Style Sheet is external: (Can be called anything)	10	
body { background-color: rgb (128, 0, 0)	5	
body { color: #0000000	5	
body { width: 1024 px	5	
body { font-family: 'Times new Roman', Times, Serif	5	
#container { background-color: #ffffff	5	
#container { margin: 20 pixels 100 pixels 20 pixels 100 pixels	5	
#container { padding: 25 px	5	
nav { text-align: center	5	
img { width: 500 px	5	
img { margin-left: auto	5	
img { margin-right: auto	5	
img { display: block	5	
hr { border: 1 pixels #800000 solid	5	
h2 { font-size: 24pt	5	
h2 { text-decoration: underline	5	
h2 { color: #000080	5	
p { padding-left: 30 px	5	
p { font-family: Helvetica, Arial, sans-serif	5	
CSS TOTAL	100	
FORMATTING	Point value	Score
Deduct 5 points for each discrepancy, up to 15 points	15	
Application Total	260	
Objective Total (from page 2)		
EVENT TOTAL		