NATIONAL UNIVERSITY OF LESOTHO
FACULTY OF HUMANITIES

LIBRARY AND INFORMATION STUDIES

COMMUNICATION AND STUDY SKILLS

LIS3306 INTRODUCTION TO INTERNET AND WEB DESIGN

JUNE EXAMINATION

August 2022   **Marks: 100**   **Time: 3 Hours**

Instructions

1. This is a *closed book* examination.
2. **Section A is compulsory.**
3. Choose *any 3* questions in Section B (questions 3 to 6).
4. Each question carries 20 marks.
5. Each question **MUST** begin on a new page.
6. Clearly write your student number on your answer sheet.

SECTION A   COMPULSORY   [40 MARKS]

Question 1

(a) Explain the difference between Static and Dynamic websites. **(4)**

(b) Explain with examples any three (3) different types of selectors in CSS. **(6)**

(c) Explain the role of W3C in web design. **(2)**

(d) Differentiate between the following pairs of terms:
   i. Internet and Intranet. **(2)**
   ii. Web Page and Website. **(2)**
   iii. Wireframe and a Sitemap **(2)**

(f) State 2 benefits of using an external style sheet. **(2)**

                                                                    [20]

Question 2

(a) Define what html element and attribute are. Give example html code for each. **(4)**

(b) Discuss any two steps in to be followed in web hosting. **(4)**

(c) The following html document contains all the required components of the functional web page. Explain the purpose of each element. **(4)**

   Ln1:<!DOCTYPE html>
   Ln2:<html>
   Ln3: <head>
   Ln4: </head>
   Ln5: <body>
   Ln6: </body>
   Ln7:</html>

(d) For each of the following HTML elements, identify the tag name, the attribute(s), the values and the content of the element.
   (i) Library. **(4)**
   (ii) <img src="library.png" alt="library">. **(4)**

                                                                    [20]

SECTION B   CHOOSE ANY *THREE (3)* QUESTIONS   [60 MARKS]

Question 3

(a) Create a webpage to display the following form as given below: **(8)**

First Name: [   ]
Last Name: [   ]
Country: [Lesotho   ▾]
Gender: ○Male ○Female
[Submit]

(b) Write a CSS code to style input fields of types stated below:
(i) Text (**Hint:** First and Last Names) using properties: *width=100%, background-color=grey, padding=12px* for all sides. **(4)**
(ii) Select (**Hint:** Country) using properties: *width=100%, background-color=grey, padding=12px* for all sides. **(4)**
(iii)Button (**Hint:** Submit) using properties: *width= 100%, background-color=green, text color=white*. **(4)**

[20]

Question 4

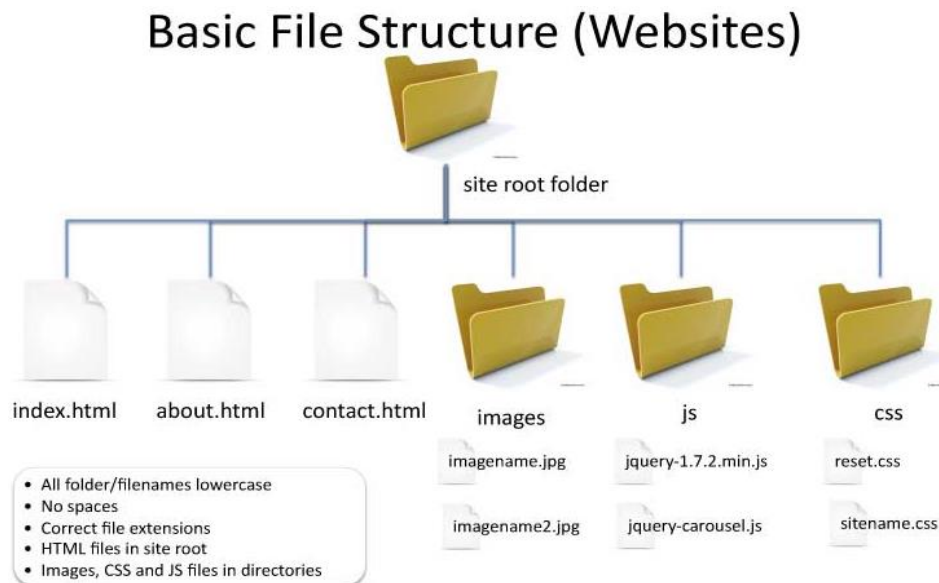(a) Write a complete HTML code to display a table below: **(10)**

Invoice

Item/desc.	Qty	Unit	Price
HTML and CSS: Design and Build Websites	3	350	1050
Learn to Code: HTML and CSS	2	200	400
Intro. to Web Design	6	50	300
Subtotal			1750
Tax		10%	175
Total			1925

(b) Identify three (3) different ways of using CSS to a web page and describe the situations in which each can be applied. **(6)**
(c) Use a css code to specify 1px solid green border for **table, th, td**. **Table** width should be 100%, with **th** height of 70px. **(4)**

[20]

Question 5

Consider the following website structure:

Basic File Structure (Websites)

(a) Create a relative link in index.html page to about.html **(2)**

(b) Create a link in contact.html page to use external stylesheet, sitename.css. **(2)**

(c) In index.html page, create an unordered list of links to all webpages in the root folder.
(**Hint:** home-index.html, about us-about.html, contact us-contact.html). **(6)**

(d) Write a css rule that removes the bullets from the unordered list above. **(2)**

(e) With reference to the diagram above, write a complete html code that shows the horizontal navigation links created in 5 (c) using internal style sheet. Use 40px for height of the navigation links and bar. **(8)**

[20]

Question 6

(a) From the following web address: https://library.nul.ls/library-staff/index.php, extract the following: **(5)**
- URL.
- Webpage file name.
- Protocol.
- Domain name.
- Webpage location.

(b) Create a CSS code with the following specifications for various HTML elements:
  (i)   <body>: Background color should be aqua. **(1)**
          Font size should be 16px. **(1)**
  (ii) <h1>: Should be underlined and centered. **(2)**
  (iii) <p>: First line should be indented to 60px. **(1)**

  (iv) <footer>: background-color from the image, orange.png. **(2)**

       Copyright statement in font-size: 14px. **(2)**

       Height of 34px. **(1)**

(c) Create a link from HTML document to link the external style sheet (style.css). **(2)**

(d) Provide three differences between an ID and a class in a web document. **(3)**

[20]