NATIONAL UNIVERSITY OF LESOTHO

BACHELOR OF LIBRARY AND INFORMATION STUDIES

LIS 3306: INTRODUCTION TO INTERNET AND WEB DESIGN

JUNE 2023	MARKS: 100	TIME: 3HOURS

INSTRUCTIONS:
- This is a *closed book* examination.
- Answer **ALL** questions
- Each question carries 20 marks.

QUESTION 1

a) Providing a use case, define each of the following terms:
   - **i.** Internet   (3)
   - **ii.** Intranet   (3)
   - **iii.** Extranet   (3)

   (9)

b) Describe any three types of links (hyperlinks) in html.   **(6)**

c) When designing a website, we are guided by the standard web design principles. Mention any five aspects on which these principles offer the guidance.   **(5)**

   [20]

QUESTION 2

a) For each of the following HTML elements, identify the tag name, the attribute name(s), the attribute value(s) and the content of the element.
   - **i.**   Journals.   (3)
   - **ii.**   <img src="nul.png" alt="NUL logo">.   (3)

   (6)

b) Differentiate between each pair of the following terms:
   - **i.**   Static website and dynamic website   (2)
   - **ii.**   Client-side applications and server-side applications   (2)
   - **iii.**   Wireframe and Sitemap.   (2)

   (6)

c) All of the following markup examples are incorrect. Identify and correct any errors in each of them.

    i.   <img " birthday. jpg" >   (2)

    ii. <i>Congratulations! <i>   (2)

    iii. <a href=" file. html" >linked text</a href=" file. html" >   (2)

    iv. <p>This is a new paragraph<\p>   (2)

                                                    (8)

                                                  [20]

QUESTION 3
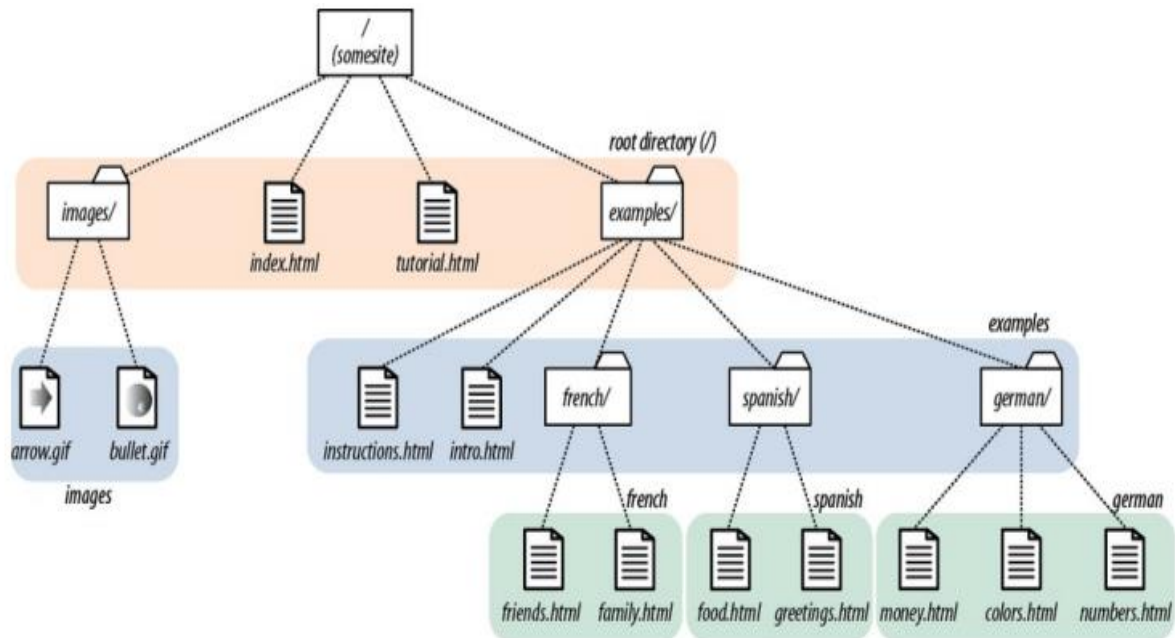
Write a webpage mark-up to display the following form.

                                                    [20]

QUESTION 4

Consider the following website structure to answer the questions that follow.

a) Create a relative link in *index.html* page to *tutorial.html*   (2)
b) In *index.html*, write the anchor element for a link to *instructions.html*.   (2)
c) Create a link to *family.html* from the page *tutorial.html*.   (2)
d) Specify the location of the image to place the graphic *arrow.gif* on the page *index.html*.
                                                                                                       (2)
e) Specify the location of the image to place the graphic *bullet.gif* on the page *intro.html*.
                                                                                                       (2)
f) Write a code that creates an unordered list of links to all pages in german folder.   (2)
g) Write a CSS rule that removes the bullets from the unordered list above.   (2)
h) Mention any three types of CSS and describe the situation in which each can be applied.
                                                                                                       (6)

                                                                                                      [20]

QUESTION 5

a) From the given web address: https://www.nul.ls/agric/index.html, extract the following:
   - URL
   - Protocol
   - Domain name
   - Webpage location
   - Webpage file name

<div align="right">**(5)**</div>

b) State any two benefits of using an external style sheet over other style sheets.   **(2)**

c) Create an external style sheet (style.css) with the following specifications for various HTML pages:

    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.   (2)

    iv. <footer>: background color should be orange.   (2)

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

                  Height of 34px.   (1)

<div align="right">**(11)**</div>

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

<div align="right">**[20]**</div>