

# NATIONAL UNIVERSITY OF LESOTHO

## BACHELOR OF LIBRARY AND INFORMATION STUDIES

### LIS 3306: INTRODUCTION TO INTERNET AND WEB DESIGN

#### SUPPLEMENTARY EXAMINATION

**AUGUST 2023**

**MARKS: 100**

**TIME: 3 HOURS**

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#### INSTRUCTIONS:

- Answer ALL questions
  - Each question carries 20 marks.
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### QUESTION 1

a) Explain one role played by each of the following in the internet and web development sphere:

- i. DNS (2)
- ii. W3C (2)
- iii. ISP (2)

[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 2

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 3

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

#### Online Registration Form

First Name:  Last Name:

Country:

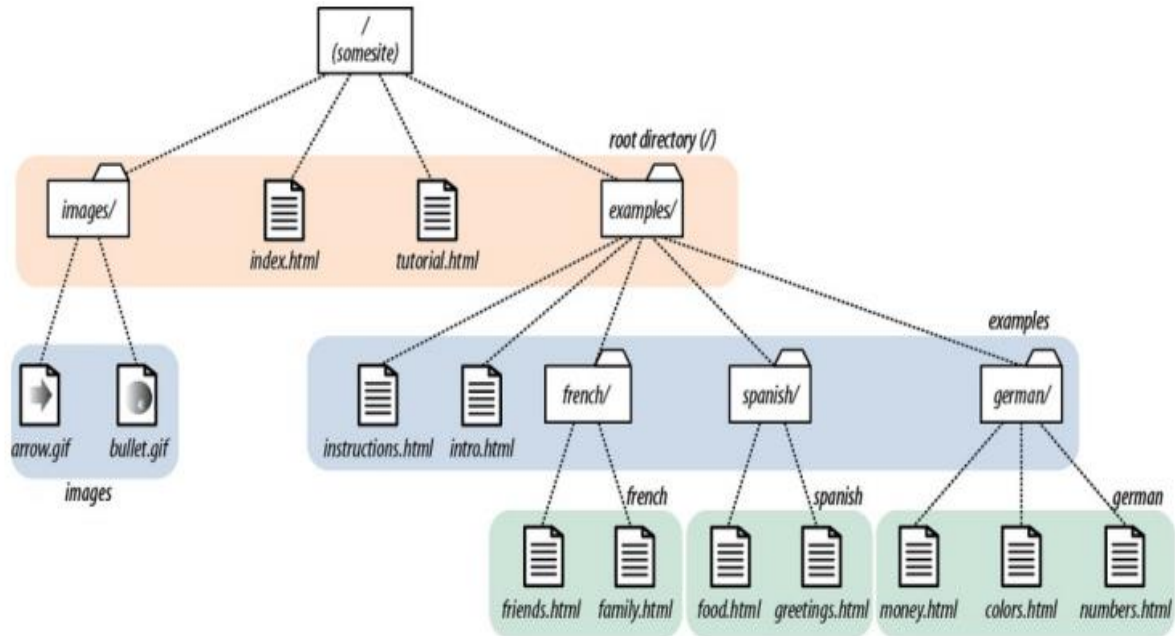
Gender:  Male  Female  Other

Description:

[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) From the given style rule below, identify the following parts:
 

```
blockquote {
  line-height: 1.5;
}
```

  - i. Selector (2)
  - ii. Property (2)
  - iii. Value (2)
  - iv. Declaration (2)

[8]  
[20]

## QUESTION 5

- a) Define Cascading Style Sheets (CSS). [2]
  - b) Create a link from inside the HTML document to the external style sheet (*style.css*). [2]
  - c) State any two benefits of using an external style sheet over other style sheets. [4]
  - d) Discuss any three types of CSS selectors and provide one example where each has been applied. [12]
- [20]