UNAM
UNIVERSITY OF NAMIBIA

FACULTY	FACULTY OF AGRICULTURE, ENGINEERING AND NATURAL SCIENCES		
DEPARTMENT	DEPARTMENT OF ENVIRONMENTAL SCIENCE		
SUBJECT	WEB DEVELOPMENT		
SUBJECT CODE	GCS3612		
DURATION	3 HOURS	MARKS	100

NOVEMBER 2022

SPECIAL/SUPPLEMENTARY EXAMINATION 2022 MEMORANDUM

Examiners: Mr. Sebastian Mukumbira

Internal Moderator: Dr Eliakim Hamunyela

External Moderator: Prof T. Dube

INSTRUCTIONS

1. Answer ALL the questions.
2. Write clearly and neatly.
3. Number the answers clearly.

This paper contains eight pages including this cover page

Section A: Multiple choice
Choose one correct answer [20 Marks]

1. TCP/IP stands for?

    a) Transmission Control Protocol/Internet Protocol

    b) Telephone Call protocol/International Protocol

    c) Transport control Protocol/Internet Protocol

    d) None of the above

2. HTTP is

    a) the predecessor to HTML

    b) the transfer protocol of the web

    c) the markup language understood by the browser

    d) the URL of a web page

3. To make your web site available to anyone with an Internet connection, you *must*

    a) Create your web pages using Notepad++

    b) Register yourself with the W3C

    c) Place your HTML and resource files on a web server

    d) All the above are true

4. What is an empty element in HTML?

    a) An element with no tag

    b) An element with no type

    c) An element with no content

    d) An element with no comment

5. Which of the following tags is **NOT** a container tag?

    a) <span>

    b) <div>

    c) <img>

    d) <table>

6. Tags that are not directly displayed on the page are written in ____ section.

    a) <head>

    b) <title>

    c) <body>

    d) <html>

7. What is the correct HTML code for inserting an image?

    a) <image src="image.gif" alt="MyImage" />

    b)

    c)

    d) <img alt="MyImage">image.gif</img>

8. The href attribute in the link tag specifies the:

    a) Destination of a link

    b) Link

    c) Hypertext

    d) Attribute

9. Which one of the following defines a CSS class selector, RED:

    a) RED {...}

    b) #RED{...}

    c) .RED{...}

    d) all of the above

10. The term _____ refers to the ways in which a web page can be made more usable by people with visual disabilities.

    a) cascading

    b) standards

    c) accessibility

    d) usability

11. Select the tag used to visually group a number of form elements.

    a) <group>

    b) <form>

    c) <label>

    d) <fieldset>

12. Which method will send form data via the URL?

    a) get

    b) post

    c) action

    d) Only a and b

13. Which one of the following defines a CSS id selector, NEW:

    a) NEW{...}

    b) #NEW{...}

    c) . NEW{...}

    d) all of the above

    e) none of the above

14. The most important goal in web design is

    a) impressive graphics

    b) site usability

    c) interesting links

    d) attractive home page

15. The _____selector is used to target a rule to a specific instance of an element.

    a) id

    b) class

    c) block

    d) external

16. Which of the following is a block-level element by default?

   a)

   b)   <img>

   c)   <a>

   d)   <span>

17. Where in an HTML document is the correct place to link to an external style sheet?

   a)   In the <footer> section

   b)   In the <body> section

   c)   In the <head > section

   d)   In the <link> section

18. How can you make a numbered list?

   a)   <list>

   b)

   c)

   d)

19. What are XML entities used for?

   a)   Entities define shortcuts to standard elements

   b)   Entities define shortcuts to standard text or special characters

   c)   Entities define shortcuts to standard attributes

   d)   Entities are not used in in XML

20. Which of the following is the correct CSS syntax?

   a) body: color= black

   b) body {color: black;}

   c) {body; color: black}

   d) {body: color= black(body}

Section B: [40 Marks]

1. Define the following terms in relation to web development: [10 Marks]

   a} HTML validation **(2 Marks)**

   b} <a> element **(2 Marks)**

   c} Sitemap **(2 Marks)**

   d} HTML attribute **(2 Marks)**

   e} Authentication **(2 marks)**

2. Good website design contributes to the usability of a website. The following questions relate to web design principles and guidelines: **[15 Marks]**

   a} Name and explain four visual design principles. **(8 Marks)**

   b} What is responsive web design and how would you achieve it? **(4 Marks)**

   c} Mention any three common security threats to company websites? **(3 Marks)**

3. The following questions are in relation to CSS(Cascading Style Sheets): **[15 Marks]**

   a} Mention and describe three types of CSS. **(6 Marks)**

   b} How would you configure an Inline CSS to colour style to a heading? **(3 Marks)**

   c} Mention three components that constitute the CSS syntax rules. **(3 Marks)**

   d} Give any three benefits of using CSS. **(3 Marks)**

Section C: [40 Marks]

1. Analyse the following HTML code and identify the errors. For each error, indicate

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <style>
5  <body> {
6      background: gray;
7  }
8
9  h {
10     color: white;
11     align: center;
12 }
13
14 p {
15     font-family: verdana;
16     font-size: 10px;
17 }
18 </head>
19
20 <h1>CSS</h1>
21 <p>Cascading Style Sheets.
22 To learn more about css <a href="https://www.css.com>click here </p></a>
23
24 </body>
25 </html>
```

2. Analyse the HTML code below. Draw a diagram to show how the resulting outcome
   will appear on a webpage.   **[10 Marks]**

```
<!DOCTYPE html>
<html>
<head>
<style>
table {
    border-collapse: collapse;
}
td, th {
   text-align: center;
   padding: ISpx;
}
</style>
</head>
<body>
<hl>Course Information</hl>
<table>
```

```
<tr>
  <th colspan = "3">Courses</th>
</tr>
<tr>
  <td>Department</td>
  <td>Full-time</td>
  <td>Part-time</td>
</tr>
<tr>
  <td>Web Development</td>
  <td>Programming</td>
  <td>Graphic Design</td>
</tr>
  <tr>
  <td>Health Science</td>
  <td>Biology</td>
  <td>Emergency</td>
</tr>
</table>
</body>
</html>
```

3. Write the HTML code to create the HTML Form displayed below. Use **Embedded CSS** for all the styling. Use background colors, font types and colors of your choice.

(20 Marks]

Personal Details

Salutation
--None-- ▾

First name: [   ]

Last name: [   ]

Gender : ○ Male   ○ Female

Email: [   ]

Date of Birth: dd / mm / yyyy 🗓

Address :
[   ]

[Submit]

End of Paper