

**UGANDA MARTYRS UNIVERSITY
NKOZI, LUBAGA, MASAKA CAMPUS**

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SYSTEMS

COURSE CODE BIT 1101 COURSE NAME: WEB DEVELOPMENT TECHNOLOGIES

FINAL ASSESSMENT

ACADEMIC YEAR 2023/2024 SEMESTER 1

BSCS 1, BSIT 1

Date of Examination: 7/12/2023

Time allowed: 3 hours (09:30am – 12:30pm)



Instructions to Candidates:

Read the following before answering the examination questions.

- 1) Do not write anything on this question paper.
- 2) Attempt all questions in Section A and B
- 3) Show all the necessary workings
- 4) Section B is practical and the codes are expected to be submitted via email

Section A [20 Marks]

1. What does HTML stand for?
 - A) Hyperlink and Text Markup Language
 - B) HyperText Markup Language
 - C) HighLevel Text Markup Language
 - D) Hyper Transfer Markup Language
2. Which tag is used to define an unordered list in HTML?
 - A)
 - B)
 - C)
 - D) <dl>
3. In CSS, what property is used to set the background color of an element?
 - A) color
 - B) background-color
 - C) text-color
 - D) bgcolor
4. What does the acronym CSS stand for?
 - A) Computer Style Sheets
 - B) Creative Style Sheets
 - C) Cascading Style Sheets
 - D) Colorful Style Sheets
5. Which type of JavaScript language is _____?
 - A) Object-oriented
 - B) Object-based
 - C) Functional programming
 - D) All of the above
6. In JavaScript, what is the purpose of the typeof operator?

- A) To check if a variable is defined
- B) To determine the data type of a value
- C) To assign a new type to a variable
- D) To convert a string to a number

7. What is the correct way to include an external JavaScript file in an HTML document?

- A) `<script src="script.js"></script>`
- B) `<js src="script.js"></js>`
- C) `<include src="script.js"></include>`
- D) `<javascript file="script.js"></javascript>`

8. Which CSS property is used to specify the font size of text?

- A) font-size
- B) text-size
- C) font-style
- D) text-style

9. What is the purpose of the `<div>` tag in HTML?

- A) To define a hyperlink
- B) To define a division or a section in a document
- C) To create an ordered list
- D) To style text content

10. Which Bootstrap class is used to create a responsive, fixedwidth container?

- A) `.containerfluid`
- B) `.containerfixed`
- C) `.containerresponsive`
- D) `.container`

11. What does the acronym API stand for in the context of web development?

- A) Application Programming Interface
- B) Advanced Programming Interface
- C) Automated Programming Interface
- D) Application Protocol Interface

12. In JavaScript, what does the === operator do?

- A) Compares values for equality without type conversion
- B) Assigns a value to a variable
- C) Performs a strict type conversion
- D) Checks if a variable is defined

13. Which HTML tag is used to create a hyperlink?

- A) <link>
- B) <a>
- C) <hlink>
- D) <url>

14. What is the purpose of the CSS box-sizing property?

- A) To set the size of a box in pixels
- B) To control the spacing between elements
- C) To include or exclude an elements padding and border in its total width and height
- D) To define the shape of a box

15. Which JavaScript function is used to display a dialog box with a specified message and an OK button?

- A) alert()
- B) confirm()
- C) prompt()
- D) message()

16. What is the purpose of the HTML <head> element?

- A) To define the main content of a web page
 - B) To specify the metadata of a document, such as title and linked stylesheets
 - C) To create a navigation menu
 - D) To format text content
17. In Bootstrap, which class is used to create a responsive navigation bar?
- A) .navbar
 - B) .nav
 - C) .navigation
 - D) .navbarresponsive
18. Which CSS property is used to control the space between elements within a box?
- A) margin
 - B) padding
 - C) spacing
 - D) borderspacing
19. What is the purpose of the HTML <meta> tag?
- A) To define a paragraph of text
 - B) To create a meta description for search engines
 - C) To set the font size of text
 - D) To define a meta link to an external resource
20. In which HTML element, we put the JavaScript code?
- A) <javascript>...</javascript>
 - B) <js>...</js>
 - C) <script>...</script>
 - D) <css>...</css>

SECTION B [80 Marks]

You are a web developer hired by a JBLabs that specializes in social media branding. One of your clients, a sustainable lifestyle influencer named Sheila Pink, seeks your expertise to create a visually appealing profile page that aligns with her lifestyle brand. Sarah aims to engage her audience by providing a captivating profile layout showcasing her dedication to fashion (you can as well borrow some ideas from facebook or twitter profile page or be creavity).

Evaluation Criteria:

1. Completeness and functionality of the page - 50 marks
2. Overall design, layout, and visual appeal - 10 marks
3. Implementation of JavaScript interactivity - 5 marks
4. Responsiveness and adaptability to different devices - 5 marks
5. Use of GitHub for version control and share your link- 10 marks

Note: Students are expected to work in a folder that contains their Name, Registration number and Campus (Ssekamata_Joseph_2023-B071-2000_Masaka). Submit to emirembe@umu.ac.ug (Rubaga and Nkozi) and bkasozi@umu.ac.ug (Masaka campus)

The entire project folder should contain all HTML, CSS, JavaScript, and any additional assets (images, if used).