



# SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

## Higher National Diploma in Information Technology

### First Year, First Semester Examination – 2023

#### HNDIT 1022-Web Design

Instructions for Candidates:  
Answer any (5) questions.

No. of questions: 06  
No. of pages: 04  
Time: Three (03) hours

#### Q1.

- 1) Define the term *Internet Protocol* (IP). [02 Marks]
- 2) List *two* main purposes of using the internet in daily life. [04 Marks]
- 3) Explain the concept of DNS and its role in web browsing. [06 Marks]
- 4) Fill in the blanks with suitable words from the list given below. [08 Marks]  
(TCP/IP, Domain Name, HTTP, FTP, URL, Bandwidth, HTTPS, Router, ISP, Cloud Storage)
  - a. https is the secure version of HTTP used for encrypted data transfer.
  - b. \_\_\_\_\_ is a hardware device that directs data across networks.
  - c. A unique name that identifies a website on the Internet is called a \_\_\_\_\_
  - d. \_\_\_\_\_ is a protocol used for the reliable transmission of data packets across a network.

[Total 20 Marks]

#### Q2.

- 1) What does HTML stand for? ✓ [02 Marks]
- 2) Name *four* main structural elements in an HTML document. ✓ [04 Marks]
- 3) Write the HTML code to create the following *list* of favorite movies. [06 Marks]  
**Hint :** You may find the following information helpful for your answer.  
Movies – H1  
Favorites – H2  
Inception, Interstellar, The Matrix – default Size



• Movies h1

• Favorites h2

- A. Inception
- B. Interstellar
- C. The Matrix

4) Fill in the blanks in the following spaces by applying your HTML knowledge. [08 Marks]

- a. The tag for adding a hyperlink is `<a href a href >`.
- b. An image can be embedded using the `<img>` tag.
- c. The `href` attribute is used to specify the URL for an `<a>` tag.
- d. HTML documents typically start with `<!DOCTYPE html>`.

[Total 20 Marks]

Q3.

- 1) Define a wireframe in web design. [02 Marks]
- 2) Why are wireframes essential in the design process? [04 Marks]
- 3) List three common elements included in a wireframe. [06 Marks]
- 4) Sketch the wireframe design for the given web page. [08 Marks]



[Total 20 Marks]



**Q4.**

- 1) What is CSS used for in web development? [02 Marks]
- 2) List and describe two benefits of using External CSS in web design. [04 Marks]
- 3) Write CSS code to set all paragraph text to 14-point Arial font. [06 Marks]
- 4) Fill in the blanks in the CSS properties and values [08 Marks]
  - a. To specify font style as italic, the font-family property is used.
  - b. \_\_\_\_\_ is used to set the background image for an element.
  - c. To align text to the center, the text-align property is used.
  - d. The property to specify border color is border color

**[Total 20 Marks]**

**Q5.**

- 1) List two common uses of JavaScript in web development.? [02 Marks]
- 2) Name two rules for defining variables in JavaScript. [04 Marks]
- 3) What is the output of the following JavaScript code snippet? [06 Marks]

```
<script type="text/javascript"> // Define the grade variable
var course = 'HNDA';
document.write("Entering switch block<br />");
switch (course) {
case 'HNDIT': document.write("Higher National Diploma in Information Technology<br />");
break;
case 'HNDA': document.write("Higher National Diploma in Accountancy<br />");
case 'HNDTHM': document.write("Higher National Diploma in Tourism and Hospitality Management <br />");
case 'HNDM': document.write("Higher National Diploma in Management<br />");
break;
case 'HNDE': document.write("Higher National Diploma in English<br />");
break;
default: document.write("Unknown course<br />");
}
document.write("Exiting switch block");
</script>
```

- 4) a. Write the required HTML code to display the following form. [04 Marks]

## Billing Form

Unit Price :

Quantity :

Discount Percentage :

Display Bill :

- b. Write a JavaScript function to calculate the bill and display it in the appropriate text box. [04 Marks]

**Hint :** When you click the Calculate Bill button, the bill will be displayed in the text box.

(Bill= Unit Price\* Quantity – (Unit Price\* Quantity\*Discount Percentage\*1 / 100)

[Total 20 Marks]

**Q6.**

- 1) Define web hosting. [02 Marks]
- 2) List two reasons why web hosting service providers offer uptime guarantees. [04 Marks]
- 3) What are the three types of web hosting plans? Briefly describe each. [06 Marks]
- 4) Fill in the blanks related to web hosting features: [08 Marks]
  - a. \_\_\_\_\_ is a control panel for managing hosting services.
  - b. \_\_\_\_\_ provides security for the website.
  - c. \_\_\_\_\_ is the amount of data transferred between a website and its users.
  - d. \_\_\_\_\_ ensures that a website's data is saved regularly to prevent data loss.

[Total 20 Marks]