

JUN 2025

## BINDURA UNIVERSITY OF SCIENCE EDUCATION

## FACULTY OF SCIENCE AND ENGINEERING

## DEPARTMENT OF COMPUTER SCIENCE

BSc HONOURS DEGREE IN COMPUTER SCIENCE (HBScCSc), INFORMATION TECHNOLOGY (HBScIT), SOFTWARE ENGINEERING (HBScSWE), NETWORK ENGINEERING (HBScNWE), PHYSICS (HBScPH) AND ENGINEERING.

## CS214/SWE214/NWE214: INTERNET AND WEB DESIGNING

DURATION: .....3 HOURS.....

TOTAL MARKS: ...100.....

## INSTRUCTIONS TO CANDIDATES

JUN 2025

1. Answer all questions.
2. Use the answer booklet for section A questions and the computer for section B.
3. Create a folder on the desktop named as <your registration number.course code e.g b01234567.CS214>

SECTION A (40 MARKS)

## Question 1

- a. State the role of the following in Web Designing: [5]
- i. HTML
  - ii. CSS
  - iii. JavaScript
  - iv. PHP
  - v. MySQL
- b. The terms Internet and Intranet are frequently used as if they are the same, define each term making the distinction clear. [4]

- c. Explain why two different search engines may return different results when given the same search terms. [2]
- d. Define session hijacking and explain how it can be combated. [6]

**Question 2**

- a. Describe the different IP Address classes. [15]
- b. Given the IP address 200.99.44.0, determine the number of hosts possible on the network. [show your workings] [3]

**Question 3**

- a. In relation to Cascading Style Sheets (CSS), briefly state what each of the following terms refer to:
  - i. Selector
  - ii. Property
  - iii. Value
  - iv. Id
  - v. Class [5 ]
- b. Explain any two advantages of using cascading style sheets. [4]
- c. Beside the use of cascading style sheets, give any other way of managing content layout. [1]

**SECTION B (60 MARKS)**

## Question 4

Every system needs login functionality with files for registering and authenticating users. Create a dynamic login system with four files and a database. The required files are for the main page, a form to register users, a form for login in and a file for displaying all the system users. The design for these is shown in figures below. [40]

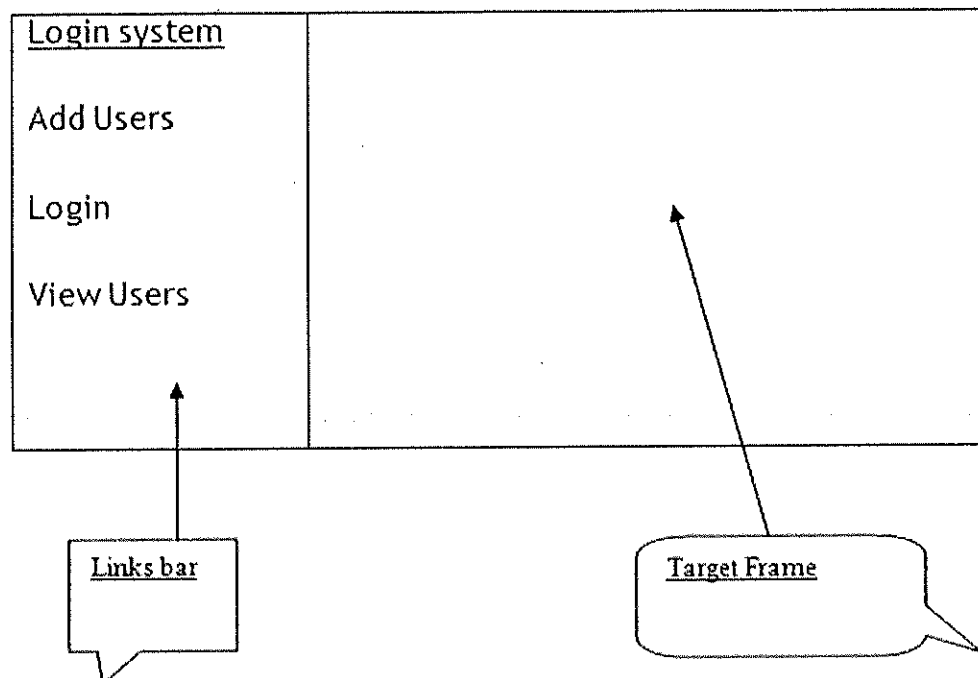


Figure1: Main Page

**Add System Users**

Firstname	<input type="text"/>
Lastname	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>
Confirm Password	<input type="text"/>
<input type="button" value="Add User"/>	

Figure 2: Add Users Form

Login Form

Username	<input type="text"/>
Password	<input type="text"/>
<input type="button" value="Sign Up"/> <input type="button" value="login"/>	

Figure 3: Login Form

System Users

Last Name	First Name	User Name

Figure 4: System Users

## Question 5

Design and validate the following Voter Registration form.

[20]

**Voter Registration Form**


First Name	<input type="text"/>
Last Name	<input type="text"/>
Gender	F <input type="radio"/> M <input type="radio"/>
Date Of Birth	<input type="text"/>
ID Number	<input type="text"/>
Cell Phone Number	<input type="text"/>
E-mail Address	<input type="text"/>
Select Ward	<input type="text"/> 
<input type="button" value="Submit"/>	

Figure 5: Voter Registration Form

\*\*\*\*\*END OF PAPER\*\*\*\*\*