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	
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INSTRUCTIONS TO CANDIDATES

- 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 (Theory use an answer booklet) [40 marks]

Question 1

a.	Define URL.	[2]
b.	With the aid of an example, describe the elements of a URL.	[8]
c.	Give an account of the history of the internet.	[10]

Question2

- a. Define the following:
 - i. Intranet. [2]
 ii. World Wide Web. [2]
 iii. Search Engine. [2]
 iv. Fully qualified domain name. [2]

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	EX0012	
b. Describe the Domain Name System structure.	[6]	
c. An IP address is a 32-bit string composed of two parts. What are the two parts are the two parts are the two parts.		
of an IP address?	[2]	
d. Classify the following network addresses giving reasons for your		
i. 127.0.0.1.	[2]	
ii. 132.112.3.66.	[2]	
SECTION B(60 MARKS)		
Question 3		
Design the following web page in figure 1 and validate all its input field	s using	
JavaScript.	[15]	
	64 e4	
Contact Name:		
Email address:		
Gender: ® Male © F		
Select your age ▼		
select your favourites		
■ Fruits		
o bananas 🗇		
o Mangoes		
() I team was pri		
○ Oranges □ ■ Drinks		
□ Drinks i. Mahewu		
■ Drinks		

Figure 1:Food and Drinks.

Send

Question 4

Design your personal web site using frames with the design in figure 2. On the left banner are links and on the right is your main page where all your links are loaded.

include a page for you're the courses you registered for this semester, the courses should be bulleted or numbered, a page for your student details and another one for downloads with at least two downloadable files. [30]

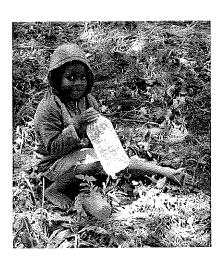
Home

My registered courses

My Student details

Downloads

Personal web site for <your name>



<your picture or any picture>

Contact Details

<your Address>

<your Cell number>

<your email address>

Powered by

copyright@<your registration number>2023

Figure 2: Personal page template

Home Page

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Question 5

The web page in figure3 shows a display of the library database after a query of the books file. Create the database and web site with a form to enter the displayed information and a page to display it as shown in figure3 below. [15]

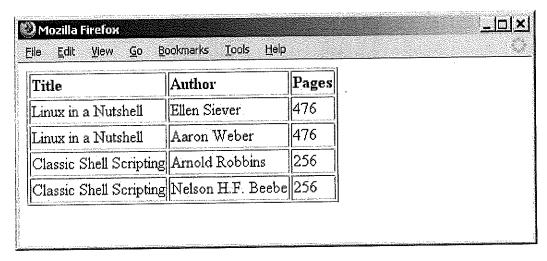


Figure 3: The library database.

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