



ZIMBABWE

**MINISTRY OF HIGHER AND TERTIARY EDUCATION,
INNOVATION, SCIENCE AND TECHNOLOGY
DEVELOPMENT**

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

INFORMATION TECHNOLOGY

**SUBJECT: Internet and Web Development
(Practical)**

PAPER NO: 553/18/S10B

DURATION: 3 Hours

NOVEMBER/ DECEMBER 2025 EXAMINATION

REQUIREMENTS

1. Computer with the following:
 - Web Development editor
 - Web server software
 - Graphics software
 - Word processor
 - Browser
2. Storage medium for every candidate
3. Printing facility

INSTRUCTIONS TO CANDIDATE

1. Answer all questions.
2. Print both code and output/interface.
3. Submit both hardcopy and softcopy.

This paper consists of 6 printed pages.

QUESTION 1

- a) Using HTML create a web page that displays the following text:

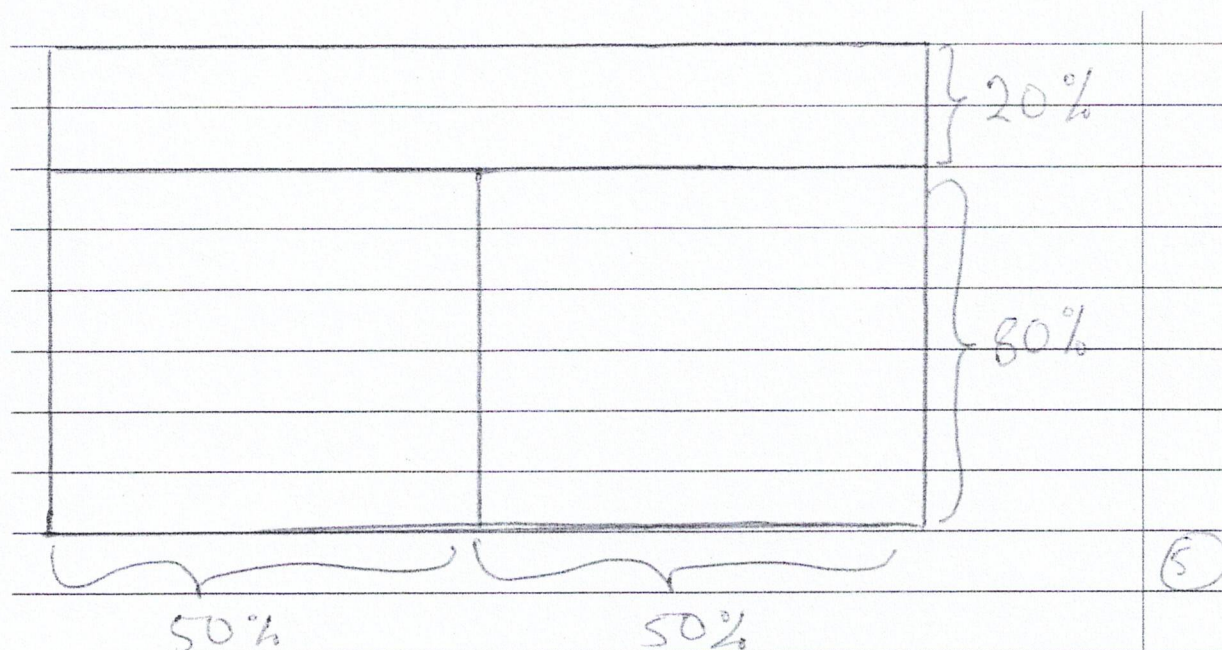
Web development, also known as website development, refers to the tasks associated with creating, building, and maintaining websites and web design, web programming and database management. Web development is closely related to the job of designing the features and functionality of apps (Web Design). The term development is usually reserved for the actual construction of these things (i.e to say, the programming of sites). The basic tools involved in web development are programming languages such as HTML (Hypertext Markup Language) CSS (Cascading Style Sheets) and JAVASCRIPT. There however, are a number of content management systems (CMS) that fall into this category including WordPress, Joomla, Drupal, TYPO3, Adobe Experience Manager.

(4 marks)

Make use of appropriate text formatting tags to effect the following:

- Insert a heading “Web Development”. (1 mark)
- Insert another heading “Web Development Tools” just before the statement “The basic tools.....” (2 marks)
- Make HTML, CSS and JavaScript an ordered list numbered using roman numerals. (2 marks)
- Make WordPress, Joomla, Drupal, Typo 3 and Adobe Experience Manager, an unordered list using square bullets. (2 marks)
- Insert an image of your choice with the following properties.
 - i) Width =500px
 - ii) Height = 200px
 - iii) Alternate text is “ This is an image” (3 marks)
- Insert a horizontal rule between the heading and the body of text. (1 mark)

- b) Create a page with the following frame structure.



(5 marks)

- c) Using HTML, create a web page that displays the following table:

Computer Price list

HP		DELL		ACER	
Model	Price	Model	Price	Model	Price
HP450	\$700	VOSTRO	\$400	ASPIRE	\$300
Pavillion	\$600	INSPIRON	\$600	NITRO	\$500

The following are the specifications of the table:

- Computer Price List is a table caption
- HP, DELL and Acer must be bold
- The table background must be green
- All instances of Model and Price must be italic. (10 marks)

QUESTION 2

A news website has a subscription service which allows people to subscribe to its news. Using HTML form tags, create a form as shown below, that can be used on the website:

(10 marks)

Customer Details	
Name :	
Sex :	☐ Male ☐ Female
Country:	Select Country ▼
Message :	
☐ Subscribe	
Submit	

- b) An online dating site allows users to upload their images as part of the sign up process. Create a PHP web page that can be used for this process on the website. The page should only allow jpeg, jpg or png formats to be uploaded. Files bigger than 10Mb should not be uploaded. Appropriate success or error messages must be displayed depending on the outcome of the upload process. Images must be saved in a folder. (20 marks)

QUESTION 3

- a) Using JavaScript create a page that accepts the length and width of a rectangle, and calculates the area. The result must be displayed on the same page. Use the following form interface:

(10 marks)

Use a function to do the calculation.

Area Calculation	
Length	
Width	
Calculate	
The area is:	

- b) Create a JavaScript based page that prompts a user to enter a string , counts the number of vowels in the string and displays the result. The page must validate input and display an appropriate message if no input is entered.

(10 marks)

QUESTION 4

- a) Create a simple login page that accepts a username and password, and authenticates the user. If the credentials are correct, it must display a success message, otherwise it displays an access denied message. Do not use a database.

(10 marks)

- b) Design a logo for a sporting club called Wolves Sports Club, that is involved in a variety of sport codes. The logo must have:
- i) The name of the club
 - ii) An appropriate tag line
 - iii) A graphic that highlights one of the sport codes that the club is involved in. (10 marks)

.../tez