



ZIMBABWE

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

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

INFORMATION TECHNOLOGY

SUBJECT: Internet and Web Design

PAPER NO: 553/S10

DURATION: 3 Hours

OCTOBER/NOVEMBER 2014 EXAMINATION

REQUIREMENTS

1. A machine loaded with any HTML editor.
2. A printing facility
3. Storage media e.g flash disk

INSTRUCTIONS TO CANDIDATE

1. Answer ALL questions.
2. Print both the code and interface.
3. Save all your work.
4. Printing is outside three hours examination time.

This paper consists of 3 printed pages.

QUESTION 1

Create an HTML page that contains the following passage:

While HTML is the primary language for authorising web pages, it is limited to creating static websites. These are more like internet brochures in that they consist of colourful pictures and text for display on the internet. A longtime ago such a website would suffice as an organisation's imprint on the web. However, improvements in web development technologies as well as the changing tastes of websites users, have resulted in the advent of more interactive and dynamic web pages that consist of not only pictures and text, but also animations and other forms of multimedia. The primary technology that is used to achieve this, is scripting. This is the use of light weight programming languages to add both functionality and interactivity to an otherwise plain web page. Such languages are called scripting languages. Examples include JavaScript, PHP and ASP. These languages are usually embedded in the normal HTML documents that make up the website.

- (a) Save the page as Qn 1. html. (3 marks)
- (b) The text should be displayed using the Courier New font, size 5. (4 marks)
- (c) Insert a paragraph break from the sentence that reads "The primary....." (2 marks)
- (d) Insert the phrase "Adding Interactivity To Your Website" as a heading of level 1, courier new font, and underlined. (6 marks)
- (e) Insert a horizontal line between the heading and the rest of the text. (3 marks)
- (f) Put the examples of the scripting languages i.e JavaScript, PHP and ASP into an ordered list. (2 marks)

QUESTION 2

Using Cascading Style Sheets alter the appearances of the document Qn1.html created in question 1 according to the specifications below and save as Qn2.html.

- (a) heading: Arial font, italic and blue colour. (5 marks)
- (b) second paragraph: font colour must be green, font and size 20pt (5 marks)

QUESTION 3

One common application of JavaScript is to validate form input before it is submitted for processing. Create a form that consists of two labels i.e "Name" and "Email", and two corresponding textboxes. Write a script that will validate the form for 2 things when a validate button is clicked:

- (a) that the text boxes are not empty (10 marks)
- (b) that a valid email address has been entered (20 marks)

QUESTION 4

Using tables for layout, design a small site for any HIV/AIDS services organisation of your choice, either real or imagined. The site must contain the following pages.

- (a) Homepage: this page must contain a brief background of the organisation and the purpose of the website. It must also contain the name, logo of the organisation and links to the other pages. (15 marks)
- (b) Transmission:-the page must contain information about different ways in which the disease is spread. (10 marks)
- (c) Prevention: the page must contain various prevention methods and strategies which can be adopted in the fight against the pandemic. (10 marks)
- (d) Links: the page must contain links to other HIV/AIDS service organisations which can be of interest to the visitor. (5 marks)

NOTE:

All the pages must have a uniform layout structure as illustrated below:

LOGO	NAME OF THE ORGANISATION
Navigational links	Information display area

The navigational links should contain links to all the pages on the site including the home page. These should appear on every page of the site. The name and log should also appear on every page of the web site.

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