



ZIMBABWE

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

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

INFORMATION TECHNOLOGY

SUBJECT: Web Development(Theory)

PAPER NO: 553/23/M06A

DURATION: 3 Hours

JUNE 2026 EXAMINATION

REQUIREMENTS

Answer booklet.

INSTRUCTIONS TO CANDIDATE

Answer all questions.

This paper consists of 3 printed pages.

QUESTION 1

- (a) Evaluate four (4) reasons why organisations need websites in today's business environment. (4 marks)
- (b) Discuss three (3) reasons why it is crucial to define clear business goals before starting website development. (6 marks)
- (c) Describe five (5) guidelines for user interface and user experience design. (10 marks)

QUESTION 2

- (a) Outline four (4) factors that should be considered when evaluating a web development tool. (8 marks)
- (b) Discuss how artificial Intelligence can be used in website template design. Focus on at least four (4) aspects. (8 marks)
- (c) Outline four (4) features of a typical website development tool. (4 marks)

QUESTION 3

- (a) Using a website builder versus coding yourself is a raging debate amongst developers. In contributing to this debate, discuss five (5) advantages of using a website builder instead of coding a website from scratch. (10 marks)
- (b) Distinguish between a static and a dynamic website. (6 marks)
- (c) Outline four (4) factors you would consider when evaluating a content management systems. (4 marks)

QUESTION 4

- (a) Differentiate between server side and client side website programming. (4 marks)
- (b) A potential client is concerned about how search engines will become aware of his newly developed site and include it in their search results. In response, briefly explain the three processes used by search engines from collection of information about the websites to their inclusion on the results of a search query. (12 marks)
- (c) DigiProducts, a computer hardware sales company is hesitant about registering multiple domain name variations (e.g. DigiProducts.com and DigiProduct.com), explain two (2) advantages that arise from doing so. (4 marks)

QUESTION 5

- (a) Publishing a website to the internet exposes it to a variety of threats and vulnerabilities. Outline five (5) common web security threats and vulnerabilities. (10 marks)
- (b) Describe what a Git repository is and explain its purpose in web application development. (4 marks)
- (c) Discuss two ways of obtaining a Git Repository. In your response indicate two advantages of each. (6 marks)

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