



ZIMBABWE

MINISTRY OF HIGHER AND TERTIARY EDUCATION

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

**TOURISM AND HOSPITALITY MANAGEMENT, PROFESSIONAL COOKERY,
BAKERY STUDIES AND FOOD AND BEVERAGE MANAGEMENT**

SUBJECT: Computer Applications

PAPER NO: 534/S08

OCTOBER/NOVEMBER 2013 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

- 1. Answer only FIVE (5) questions.**
- 2. Start every question on a fresh page.**

This paper consists of 3 printed pages.

QUESTION 1

“This year we are going to make sure that all the computers at this college should be connected to the internet and data transmission improves.” says the I.T. Head of Department. You have been requested to explain four (4) types of data transmission at their disposal so that they can choose one to adopt.

Explain with the aid of diagrams the four types of both guided and unguided media transmission of your choice which can be adapted by the I. T. Department.

(20 marks)

QUESTION 2

Briefly explain the following computer abbreviations:

- a) VoIP (5 marks)
- b) ISDN (5 marks)
- c) LAN (5 marks)
- d) VPN (5 marks)

QUESTION 3

- a) Explain the term ‘computer ethics’. (5 marks)
- b) With the aid of examples explain the following terms in relation to computer ethics:
 - i) Software piracy (5 marks)
 - ii) Censorship (5 marks)
 - iii) Data privacy (5 marks)

QUESTION 4

Compare and contrast Artificial Intelligence (AI) and Human Intelligence (HI). (20 marks)

QUESTION 5

- a) Explain computer viruses citing relevant examples. (5 marks)
- b) With the aid of a clearly labelled diagram, explain the virus life cycle. (15 marks)

QUESTION 6

Explain in detail the following concepts:

- a) Data Encryption (6 marks)
- b) Digital Signature (7 marks)
- c) Web-hosting (7 marks)

QUESTION 7

- a) Explain e-commerce. (6 marks)
- b) Outline and explain the benefits of e-commerce. (6 marks)
- c) With the aid of examples explain four models of e-commerce. (8 marks)

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