



ZIMBABWE

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

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

BAKING TECHNOLOGY AND MANAGEMENT

MODULE: Theory of Baking

PAPER NO: 598/23/M02

DURATION: 3 Hours

MAY/ JUNE 2025 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

1. Answer all questions.
2. Start each question on a fresh page.

QUESTION 1

- a) Define the “enzyme” as applied in baking. (2 marks)
- b) Classify enzymes according to structure. (4 marks)
- c) Outline any four (4) benefits of using enzymes in baking. (4 marks)

QUESTION 2

- a) Identify any five (5) types of chocolates in the chocolate manufacturing industries. (5 marks)
- b) Justify the importance of the following steps in breadmaking:
 - i) Kneading (2 marks)
 - ii) Bulk fermentation (2 marks)
 - iii) Dividing (2 marks)
 - iv) Shaping (2 marks)
 - v) Baking (2 marks)

QUESTION 3

- a) Define the term “maintenance” as applied in the bakery industry. (2 marks)
- b) Defend the carrying out of maintenance of bakery equipment and machinery in a large bakery. (6 marks)
- c) Briefly explain the operation of the following bakery equipment and machinery:
 - i) Weighing and metering (3 marks)
 - ii) Greasing machines (3 marks)
 - iii) Ovens (3 marks)
 - iv) Depanners (3 marks)

QUESTION 4

- a) Indicate any six (6) health and safety regulations governing the bakery industries. (6 marks)
- b) Describe the plant layout design of the following bakeries:
- i) Small (3 marks)
 - ii) Medium (3 marks)
 - iii) Large (3 marks)

QUESTION 5

- a) Select any four (4) citrus fruits used in the baking industries. (4 marks)
- b) Identify any six (6) indigenous commodities used in commercial baking industries. (6 marks)
- c) Explain the value addition acquired from the use of indigenous bakery raw material. (10 marks)

QUESTION 6

- a) Define the term “quality control” as applied in the baking industry. (2 marks)
- b) Suggest any three (3) reasons for conducting quality control in bakeries under the following headings:
- i) Raw materials (5 marks)
 - ii) In- process (5 marks)
 - iii) Finished products (5 mark)