



ZIMBABWE

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

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL CERTIFICATE

IN

PAINTING AND DECORATING

SUBJECT: Resource Acquisition

PAPER NO: 349/22/M06

DURATION: 3 hours

NOVEMBER/DECEMBER 2025 EXAMINATION

REQUIREMENTS

1. Answer booklet
2. A3 drawing paper
3. Drawing instruments
4. Calculator

INSTRUCTIONS TO CANDIDATE

1. Answer ALL questions.
2. Each question carries 20 marks.

QUESTION 1

- a) i) Define 'building maintenance'. (2 marks)
- b) Explain the relevance of the following aesthetic design:
- i) Balance (2 marks)
- ii) Unity and shape (2 marks)
- c) Narrate the purposes of the following:
- i) Block plans (2 marks)
- ii) Site plans (2 marks)
- iii) Improvement notice (2 marks)
- iv) Prohibition notice (2 marks)
- d) Describe the purpose of the following structural members:
- i) Primary elements (2 marks)
- ii) Secondary elements (2 marks)
- iii) Finishing elements (2 marks)

QUESTION 2

- a) Identify three (3) main causes of movement in materials. (6 marks)
- b) Describe two (2) main factors that contribute to the rate and extent to which a building deteriorates. (4 marks)
- c) Compile two (2) functions of each of the following members of the building team:
- i) Local authority (2 marks)
- ii) Quantity surveyor (2 marks)
- iii) Architect (2 marks)
- iv) Clerk of works (2 marks)
- v) Client (2 marks)

QUESTION 3

- a) Define the term 'scale' as used in construction drawing. (2 marks)
- b) Explain the use of the following drawing instruments:
- i) Tee-square (2 marks)
 - ii) Pair of dividers (2 marks)
 - iii) Set square (2 marks)
- c) Identify any two (2) types of scales used in the construction drawing. (2 marks)
- d) Indicate symbols used to identify the cross section of the following materials:
- i) Hard core (2 marks)
 - ii) Sawn timber (2 marks)
 - iii) Brick work (2 marks)
 - iv) Earth (2 marks)
 - v) Stone (2 marks)

QUESTION 4

- a) An open concrete tank for water storage at site n measuring internally 1m wide, 2m long and 1,5m deep and the concrete being 10cm thick.
- Calculate:
- i) The capacity of the tank in m^3 (7 marks)
 - ii) The volume of concrete used in m^3 (3 marks)
- b) If nine women can paint a building in 21 days, how much long will seven women take. (3 marks)
- c) Find the number of 600 × 600mm porcelain floor tiles for a room measuring 20m × 10m. (7 marks)

QUESTION 5

A store room $4,2 \times 3m$ is to be painted to a height of $2,7m$. Door opening is $800mm \times 2,1m$ and window is $1,5m \times 1,2m$.

Compute:

- a) Total surface area to be painted. (6 marks)
- b) Cost of paint at 2 coats if it costs \$5,35 to paint $1m^2$ of each coat. (3 marks)
- c) Amount of paint required if 1 litre of paint covers $5,6m^2$. (6 marks)
- d) Number of 5 litre tins to be acquired for the work. (3 marks)
- e) Number 150ml tinters required if 1,5 tinters are needed to tint 5 litre bucket of paint. (2 marks)

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