

**THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL
DIPLOMA IN TECHNICAL EDUCATION EXAMINATION**

784

BRICKWORK AND MASONRY

(SUPPLEMENTARY)

Time: 3 Hours

Year: 2006

Instructions

1. This paper consists of sections **six (6)** questions.
2. Answer question number **one (1)** and any other **four (4)** questions.
3. Question 1 carries **thirty-two (32)** marks and the rest carries **seventeen (17)** marks each.
4. Non-programmable calculators may be used.
5. Cellular phones are **not** allowed in the examination room.
6. Write your **Examination Number** on every page of your answer booklet(s).

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1. (a) Define the term “brick bonding” in masonry work.
(b) State four types of brick bonds commonly used in wall construction.
(c) Explain how the choice of bond affects the strength and appearance of a masonry wall.
2. (a) What is meant by the term “parapet wall”?
(b) Mention three types of parapet walls used in construction.
(c) Describe the construction process of a solid parapet wall built on a flat roof slab.
3. (a) Define the term “foundation bed” in masonry construction.
(b) State three factors to consider when preparing a foundation bed for a load-bearing wall.
(c) Describe the step-by-step process of preparing a foundation bed for a brick wall.
4. (a) State four environmental factors that can affect the curing of masonry work.
(b) Discuss how each factor may influence the quality of mortar and structural performance of the wall.
(c) Suggest proper site practices to manage these environmental conditions effectively.
5. (a) What is a lintel in masonry construction?
(b) State three purposes of using lintels in wall construction.
(c) With the aid of a sketch, describe the construction of a reinforced concrete lintel over a window opening.
6. (a) Define the term “cavity wall” in masonry.
(b) State three advantages of constructing cavity walls in buildings.
(c) Explain the procedure for installing cavity wall insulation during construction.