

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

784

BRICKWORK AND MASONRY

(SUPPLEMENTARY)

Time: 3 Hours

Year: 2001

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 “foundation” as applied in construction.
 - (i) Mention two functions of a foundation.
 - (ii) With sketches, describe a stepped footing for a wall foundation.
2. (a) What is a cavity wall?
 - (b) Mention three advantages of using cavity walls.
 - (c) Describe how wall ties are used in cavity wall construction.
3. (a) Define the term “finishes in masonry”.
 - (b) Mention four internal finishes.
4. (a) State four qualities of good building stones.
 - (b) Suggest three site tests to check the quality of stones.
5. (a) Define the term “buttress wall”.
 - (b) Describe the process of constructing a brick buttress wall bonded to an existing wall.
6. (a) Differentiate between load-bearing walls and partition walls.
 - (b) Suggest two suitable materials for partition walls and explain why.