**THE UNITED REPUBLIC OF TANZANIA**

**NATIONAL EXAMINATIONS COUNCIL**

**DIPLOMA IN TECHNICAL EDUCATION EXAMINATION**

**784 BRICKWORK AND MASONRY**

**(SUPPLEMENTARY)**

**Time: 3 Hours** **Year: 2001**

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**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).

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.