THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN TECHNICAL EDUCATION EXAMINATION

784 BRICKWORK AND MASONRY

(SUPPLEMENTARY)

Time: 3 Hours **Year: 2003**

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 “arch in masonry”.

   (b) Mention four types of arches.

   (c) With sketches, explain the construction of a segmental arch.

2. (a) What is meant by the term “coping stone”?

   (b) State three reasons for providing copings.

3. (a) State four causes of dampness in walls.

   (i) Explain two effects of dampness.

   (ii) Suggest two methods for controlling dampness.

4. (a) Define “reinforced brickwork”.

   (b) Mention two advantages and two disadvantages of reinforced brickwork.

   (c) Describe the method of inserting reinforcement in a half-brick thick wall.

5. (a) What is a sill in construction?

   (b) With a sketch, describe the construction of a stone sill.

6. (a) Differentiate between rubble masonry and coursed rubble masonry.

   (b) State two applications of rubble masonry.