THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN TECHNICAL EDUCATION EXAMINATION

784 **BRICKWORK AND MASONRY**

Time: 3 Hour. **Wednesday, 20 May 2015 a.m**

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. Communication devices and any unauthorized materials are **not** allowed in the examination room
6. Write your **Examination Number** on every page of your answer booklet.

1. (a) Define the term “blockwork” in construction.

   (b) State four differences between blockwork and brickwork.

   (c) Mention four advantages of using concrete blocks in wall construction.

2. (a) What is meant by the term “wall finish”?

   (b) State five types of wall finishes used in masonry construction.

   (c) Describe the steps followed when applying a cement-sand screed finish to a masonry wall.

3. (a) Define the term “movement joint” in masonry.

   (b) Give three reasons for providing movement joints in brickwork.

   (c) With the aid of a sketch, show the location and structure of a vertical movement joint in a long wall.

4. (a) State four functional requirements of a good wall in a building.

   (b) Explain how bonding affects the structural performance of a wall.

   (c) State four methods used to strengthen long brick walls.

5. (a) Explain the importance of providing openings in walls during building construction.

   (b) With the aid of sketches, describe the difference between a door and a window opening.

   (c) State the factors to consider when choosing the location of a door in a wall.

6. (a) (i) Define the term “superstructure”.

      (ii) List three components of a building’s superstructure.

   (b) With the help of a sketch, describe how a wall footing is constructed.

   (c) State four precautions to take when constructing a footing during rainy conditions.