

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

784

BRICKWORK AND MASONRY

(SUPPLEMENTARY)

Time: 3 Hours

Year: 2009

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) What is meant by the term “wall tie”?
(b) State four functions of wall ties in cavity wall construction.
(c) Describe the correct method for placing wall ties during masonry work.
2. (a) Define the term “pointing” in masonry.
(b) State three types of pointing finishes used in brickwork.
(c) Explain how the choice of pointing finish affects the durability and aesthetics of a brick wall.
3. (a) What is a coping on a wall?
(b) State three purposes of copings in masonry construction.
(c) With the aid of a sketch, describe the construction of a brick coping with a concrete capping.
4. (a) State four defects that may occur in freshly constructed walls.
(b) Explain the causes of each defect mentioned in 4(a).
(c) Suggest one preventive measure for each defect.
5. (a) Explain the term “battered wall” in masonry.
(b) State three advantages of constructing battered walls in retaining structures.
(c) Describe the construction process of a battered retaining wall using brickwork.
6. (a) Define the term “precast concrete block”.
(b) State four advantages of using precast concrete blocks in walling.
(c) Describe the process of manufacturing solid precast concrete blocks at the site.