THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN TECHNICAL EDUCATION EXAMINATION

783 **BUILDING CONSTRUCTION**

Time: 3 Hour. **Tuesday, 17th May 2016 a.m**

Instructions

1. This paper consists of sections **five (5)** questions.
2. Answer all questions.
3. Each question carries **twenty (20)** marks.
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) State three advantages of using steel as a construction material in multi-storey buildings.

   (b) Explain three safety precautions to observe when working with steel structures on site.

   (c) Describe three problems that may arise if structural steel elements are not protected against corrosion.

2. (a) Explain four factors to consider when selecting a roofing material for residential buildings.

   (b) State three disadvantages of using clay tiles as a roofing material.

   (c) Outline three maintenance practices necessary for keeping roof coverings in good condition.

3. (a) Describe the importance of site clearance before starting any construction work.

   (b) State four activities involved in site clearance.

   (c) Mention three consequences of failing to carry out proper site clearance.

4. (a) Explain the functions of a retaining wall in building construction.

   (b) State three types of retaining walls commonly used in sloped sites.

   (c) Describe three situations where a retaining wall may be required during building development.

5. (a) Define the term "load-bearing wall" and explain its role in structural stability.

   (b) State four differences between load-bearing walls and partition walls.

   (c) Give three reasons why load-bearing walls must be properly aligned during construction.