THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN TECHNICAL EDUCATION EXAMINATION

783 **BUILDING CONSTRUCTION**

Time: 3 Hour. **Tuesday, 14th May 2013 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 functions of external walls in a building.

   (b) Explain three factors to consider when selecting materials for external walls.

   (c) Mention three defects that can occur in external walls due to poor construction practices.

2. (a) Describe the importance of proper site drainage before and during construction.

   (b) List three surface drainage methods used to manage stormwater on a building site.

   (c) Explain three consequences of poor site drainage on building performance.

3. (a) Define the term “plastering” and state its purpose in building construction.

   (b) Explain three causes of poor adhesion between plaster and wall surfaces.

   (c) Give three precautions to take when applying plaster to ensure a durable finish.

4. (a) Describe three types of doors commonly used in residential buildings and where each is best applied.

   (b) State three reasons for using flush doors in interior construction.

   (c) List three common problems that may affect door performance over time.

5. (a) Explain the term “building orientation” and give two reasons why it is important in design.

   (b) State four factors that influence the orientation of a residential building.

   (c) Mention three effects of poor building orientation on occupant comfort.