THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN TECHNICAL EDUCATION EXAMINATION

783 **BUILDING CONSTRUCTION**

Time: 3 Hour. **Tuesday, 12th May 2009 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) Define the term "construction waste" and give two examples of common waste materials found on site.

   (b) (i) Explain two negative effects of poor construction waste management.

   (ii) State two methods of controlling construction waste on building sites.

   (c) Describe three ways in which waste reduction can improve project efficiency.

2. (a) Explain the importance of proper storage of construction materials.

   (b) (i) Mention two effects of poor cement storage on site.

   (ii) State two storage precautions for timber used in roofing.

   (c) Give three reasons why material storage areas must be properly planned in advance.

3. (a) What is site mobilization? Explain its importance at the beginning of a project.

   (b) (i) List four components typically involved in site mobilization.

   (ii) State two possible challenges during site mobilization.

   (c) Explain three benefits of proper mobilization for project success.

4. (a) (i) Define the term "setting out" in building construction.

   (ii) State three tools used during setting out.

   (b) Explain three consequences of incorrect setting out in foundation work.

   (c) Describe three measures to ensure accuracy during the setting out process.

5. (a) (i) Define “contract variation” in construction.

   (ii) State two common causes of variation in building projects.

   (b) Explain three effects of contract variations on project cost and schedule.

   (c) (i) List three stakeholders involved in managing contract variations.

   (ii) Give two ways of minimizing unnecessary variations during construction.