THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN TECHNICAL EDUCATION EXAMINATION

783 **BUILDING CONSTRUCTION**

Time: 3 Hour. **Tuesday, 14th May 2002 p.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 “preliminary works” in building construction.

   (b) (i) List three examples of preliminary works on a construction site.

   (ii) State two reasons why preliminary works are necessary before commencing major construction.

   (c) Describe three consequences of skipping preliminary works on a building project.

2. (a) Explain the purpose of supervision in construction.

   (b) (i) Identify four key duties of a site supervisor.

   (ii) State two benefits of proper supervision to project quality.

   (c) Mention three consequences of inadequate supervision in building construction.

3. (a) What is concrete slump testing?

   (b) (i) State three reasons for conducting a slump test on site.

   (ii) List two factors that affect the slump value of fresh concrete.

   (c) Describe three possible results of a slump test and their interpretations.

4. (a) Define the term “building codes.”

   (b) (i) Mention three key areas covered by building codes.

   (ii) Give two advantages of complying with national building codes.

   (c) Identify three challenges encountered in enforcing building codes in rural construction areas.

5. (a) What is temporary work in construction?

   (b) (i) List four types of temporary works commonly used on construction sites.

   (ii) State two safety measures necessary when erecting temporary structures.

   (c) Explain three problems that may occur if temporary works are poorly constructed or neglected.