THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN TECHNICAL EDUCATION EXAMINATION

772 **EDUCATION**

Time: 3 Hour. **Tuesday, 17 My 2018 p.m**

Instructions

1. This paper consists of **seven (7)** questions.
2. Answer **five (5)** questions only.
3. Each question carries **twenty (20)** marks.
4. All communication devices and any unauthorised materials are **not** allowed in the examination room
5. Write your **Examination Number** on every page of your answer booklet(s)

1. (a) Define the term “instructional objective” as used in teaching.

   (b) Give four characteristics of well-written instructional objectives.

   (c) Rewrite the following poorly stated objective into a correct behavioral objective: “Students will understand the concept of electrical resistance.”

   (d) List and briefly explain the three domains of learning that must be considered when setting objectives in Technical Education.

2. A technical teacher prepared the following lesson excerpt:

Topic: Workshop Safety	**Time: 80 minutes**	**Class: Electrical Installation**
General Objective: To enable students to understand workshop safety rules		
Teaching Aids: Safety poster, warning signs, fire extinguisher		
Activities: Explanation, group discussion, demonstration		
Evaluation: Ask questions orally		

(i) Identify three weaknesses in the teacher’s preparation.

(ii) Suggest three improvements that can be made to enhance the lesson.

(iii) Mention four factors that should be considered when selecting teaching and learning materials for such a lesson.

3. (a) What is meant by the term "training methodology"?

   (b) Explain four reasons why choosing an appropriate methodology is important in Technical and Vocational training.

   (c) List three learner-centered training methodologies suitable for technical classrooms and briefly describe each.

4. (a) Describe what is meant by "learning environment" in a technical institution.

   (b) Mention four characteristics of a positive learning environment.

   (c) Explain how each of the following can affect the learning environment:

      (i) Lighting

      (ii) Workshop layout

      (iii) Noise levels

      (iv) Availability of equipment

5. (a) What is evaluation in education?

   (b) Differentiate between diagnostic, formative, and summative evaluation.

   (c) State four benefits of using continuous assessment in Technical Education.

   (d) Give three challenges teachers may face when implementing continuous assessment strategies.

6. (a) Define the term "competence" in the context of Competency-Based Education and Training (CBET).

   (b) Explain the following components of a competence statement:

   (i) Performance criteria

(ii) Conditions under which performance occurs

(iii) Required knowledge

(c) Identify three advantages of using competence-based assessment in workshops.

7. (a) Outline four stages of habit formation in learners during practical training.

(b) Explain three strategies a teacher can use to help students replace poor workshop habits with productive ones.

(c) State four reasons why developing good habits is essential in vocational education.