THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN TECHNICAL EDUCATION EXAMINATION

772 **EDUCATION**

Time: 3 Hour. **Tuesday, 10 My 2016 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 “curriculum implementation” in the context of technical education.

   (b) Identify four key stakeholders involved in curriculum implementation in vocational institutions.

   (c) Describe three roles played by teachers during curriculum implementation.

   (d) Give four common barriers to effective curriculum implementation in technical colleges.

2. (a) Explain the meaning of the term “Bloom’s Taxonomy”.

   (b) List the six levels of Bloom’s Taxonomy in the cognitive domain.

   (c) For each of the following lesson objectives, identify the correct level of Bloom’s cognitive domain:

   (i) "State the main components of an internal combustion engine."

   (ii) "Compare the functions of DC and AC motors."

   (iii) "Design a simple electrical circuit for a three-room house."

3. (a) What is a training needs assessment?

   (b) Explain the importance of training needs assessment in curriculum development.

   (c) Using your area of specialization, provide three examples of needs that may arise and how they can influence curriculum content.

   (d) Briefly outline the main stages of conducting a training needs assessment.

4. A teacher prepared the following lesson plan for a two-hour carpentry session:

Lesson Component	**Content**
General Objective	To understand the process of using hand saws

Specific Objective	At the end of the lesson, students should be able to list types of hand saws and demonstrate their proper use
Teaching Method	Demonstration and Group Work
Materials	Hand saws, timber, workbench
Assessment	Oral questioning

(i) Identify two strengths and three weaknesses of this lesson plan.

(ii) Suggest two ways the assessment method can be improved.

(iii) Give three reasons why practical skills must be assessed through performance-based methods.

5. (a) What is the meaning of the term “behavioral objective”?

   (b) State four advantages of using behavioral objectives in lesson planning.

   (c) Convert the following general objective into three well-written specific behavioral objectives:

   "Learners will understand how to use a multimeter."

6. (a) Explain the difference between formative feedback and summative feedback.

   (b) State four ways a technical teacher can use feedback to improve student learning.

   (c) Mention three challenges teachers face in giving timely and effective feedback in practical subjects.

   (d) Describe how peer feedback can be effectively implemented in a workshop environment.

7. (a) Define “habit formation” in the context of vocational education.

   (b) List four factors that influence habit formation in technical training.

(c) Suggest three strategies teachers can use to break learners' bad workshop habits.

(d) Explain two benefits of habit automation in skill mastery.