

**CHRISTIAN SOCIAL SERVICES COMMISSION (CSSC)  
NORTHERN ZONE JOINT EXAMINATIONS SYNDICATE (NZ-JES)**



**FORM SIX PRE – NATIONAL EXAMINATION 2026**

**134/3**

**AGRICULTURE 3  
(PRACTICAL)**

**Time: 3:20 Hours**

**Wednesday, 4<sup>th</sup> March, 2026 a.m**

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**Instructions**

1. This paper consists of **three (3)** questions.
2. Answer **all** questions.
3. Question **one** carries **20** marks and the remain **two** questions carry **15** marks each.
4. Cellular phones and any unauthorized materials are **not** allowed in the examination room.
5. Write your **Examination number** on every page of your answer booklet(s).

## QUESTIONS

1. You are provided with specimen **A**. Observe it carefully and answer all questions that follows under each procedure given below;

**(a) Procedure 1:**

- Weigh the beaker and take it to zero reading, then put 5g of moist garden soil into the beaker.
- Place the beaker over the Bunsen burner and heat gently while stirring for 5 minutes.
- Cool the beaker and weigh it again and record your results.

**(b) Procedure 2:**

- Now place the beaker over the Bunsen burner and heat strongly for 6 minutes while stirring.
- Cool the soil and weigh it after cooling, then record your results.

**(a) QUESTIONS FROM PROCEDURE 1:**

- (i) What is the aim of this experiment? **(2.5 Marks)**
- (ii) Comment whether there is loss in weight or not ? **(2.5 Marks)**
- (iii) Find out why there is loss in weight? **(2.5 Marks)**
- (iv) What do you think this loss in weight indicate? **(2.5 Marks)**

**(b) QUESTIONS FROM PROCEDURE 2:**

- (i) What is the aim of this experiment? **(2.5 Marks)**
- (ii) Comment whether there is loss in weight or not? **(2.5 Marks)**
- (iii) Find out what causes loss in weight after strong heating ? **(2.5 Marks)**
- (iv) What this loss in weight indicates in this soil sample? **(2.5 Marks)**

2. You are provided with specimens **B**, **C** and **D**. Observe them carefully and answer all questions that follow;

(a) Using specimen **B** and **C** you are provided:

(i) Compare between specimen B and C under the following guidelines. **( 4 Marks)**

Parameters	SPECIMEN B	SPECIMEN C
Leaves		
Roots		

- (ii) Classify specimen **B** and **C** you are provided according to morphological classification groups. ( **2 Marks**)
  - (iii) What are other two different examples of crop plants that fall under each category in (ii) above? ( **2 Marks**)
- (b) Using hand lens to observe clearly the mouth part of specimen **D** you are provided:-
- (i) What is the aim of this practical activity? ( **1 Mark**)
  - (ii) With two examples for each group, how can you classify three groups of crop insect pests according to the nature of their mouth part and mode of feeding? ( **3 mark**)
  - (iii) What are three benefits you can get as an expert in crop production when you succeeded to know each group of crop insect pests depending on the nature of their mouth parts that causes various damage in crop plants? ( **3 Mark**)
3. You are provided with specimen **E**. Observe it carefully and answer all questions that follow;
- (i) Identify the name of the specimen **E**. ( **1.5 Marks**)
  - (ii) Draw the sketch of specimen **E** while in combination, then draw again and label each while in separate form. ( **2 Marks**)
  - (iii) Which animal disorder is relieved using specimen **E**? ( **2 Marks**)
  - (iv) Which side of the animal stomach is target for relieving problem in (iii) above? ( **2 Marks**)
  - (v) Write down five procedures to be followed to help animal with the problem in (iii) above using **E**. ( **7.5 Marks**)