

231/3(b)  
Inst. Sc.

— **BIOLOGY** —  
**(PRACTICAL)**  
**Nov. 2019**

**Paper 3**

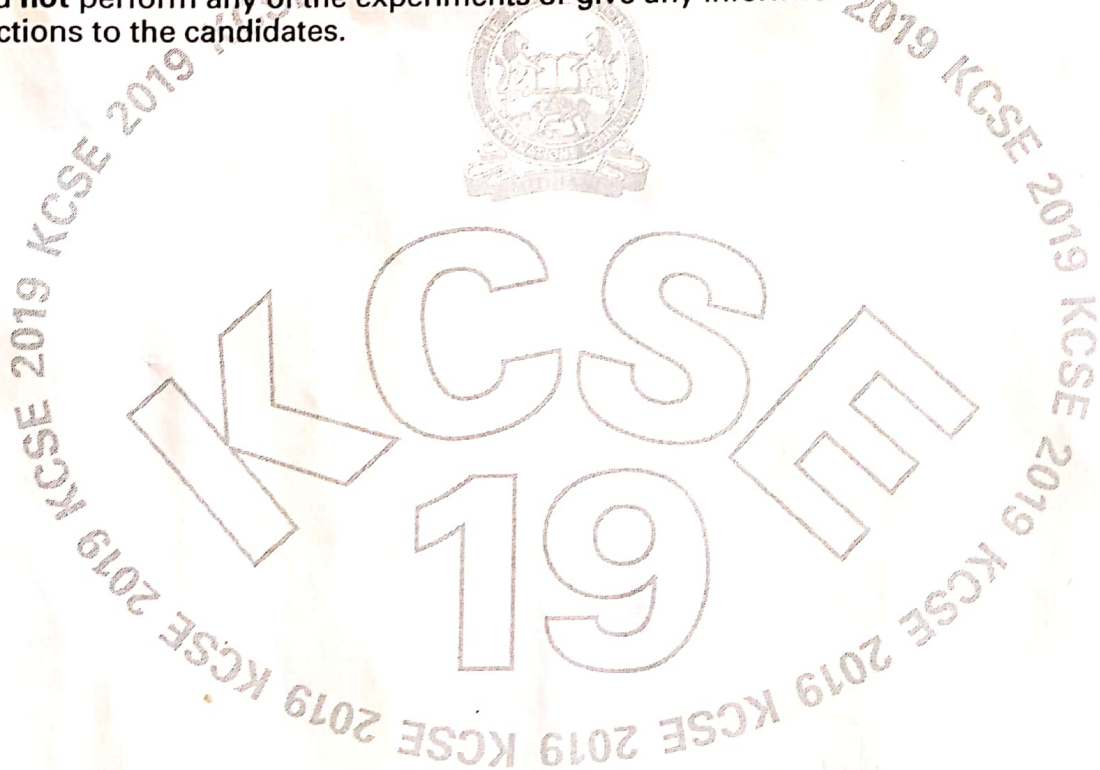


**INSTRUCTIONS TO SCHOOLS**

The information contained in this paper is to enable the head of the school and the teacher in charge of Biology to make adequate preparations for this year's Biology practical examination.

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**No one else** should have access to this paper or acquire knowledge of its contents. Great care **must** be taken to ensure that the information herein does not reach the candidate either directly or indirectly. The teacher or laboratory technician in charge of Biology should **not** perform any of the experiments or give any information related to these instructions to the candidates.



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**These instructions consist of 2 printed pages.**



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**Turn over**

1. Besides other laboratory fittings and equipment, each candidate will require the following:

- (a) A twig with at least three leaves from a thorny lemon tree, labelled **F**
- (b) A twig with at least three leaves from a mango tree, labelled **G**
- (c) A Kale (*Sukuma wiki*) leaf, labelled **J**
- (d) A portion of creeping grass with at least three leaves/leaf sheaths, labelled **K**
- (e) One incisor tooth, labelled **L**
- (f) One molar or premolar tooth, labelled **M**

**Note:** Collect all plant specimens a day before the examination.

Specimens **L** and **M** should be obtained from the same mammal.

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