****

**CEKENAS END OF TERM ONE EXAM-2022**

**FORM FOUR EXAM**

*Kenya Certificate of Secondary Education.(K.C.S.E)*

**BIOLOGY PRACTICAL**

**231/3**

**BIOLOGY**

**PAPER 3**

**(PRACTICAL)**

**TIME: 1¼ HRS**

**CONFIDENTIAL INSTRUCTIONS**

These instructions are to enable the Head of Institution and the teacher in charge of Biology to make preparations for 231/3 Biology Practical.

**No one else** should have access to this information either directly or indirectly.

**Each candidate requires the following**

- Specimen H (Lantana twig with flowers/fruits)

- Irish potato

- Specimen K (creeping grass complete with roots and internodes)

- Specimen P (medium sized Avocado fruit)

- 5mls of Dilute Hydrogen peroxide solution

- 5mls of Solution K (0.5 M Hydrochloric acid)

- 5mls of Solution L (Distilled water)

- 5mls of Solution M (0.5 M sodium hydroxide solution)

- Access to Washing up solution (Glycerine)

- Stop watch

- Measuring cylinder

- Dropper

- Glass rod

- White tile

- Scapel

- 4 test tubes in a test tube rack

- Iodine solution

- Distilled water in a wash bottle

- Each student should carry a clear ruler