



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