

Biology III

013

05/08/2022 08:30 AM – 10:00 AM



NESA

NATIONAL EXAMINATION AND
SCHOOL INSPECTION
AUTHORITY

ADVANCED LEVEL NATIONAL EXAMINATIONS, 2021-2022

SUBJECT: BIOLOGY III

PAPER III: PRACTICAL

COMBINATIONS:

- BIOLOGY-CHEMISTRY-GEOGRAPHY (**BCG**)
- MATHEMATICS-CHEMISTRY-BIOLOGY (**MCB**)
- PHYSICS-CHEMISTRY-BIOLOGY (**PCB**)

DURATION: 1h30 min

INSTRUCTIONS:

- 1) Write your names and index number on the answer booklet as written on your registration form and **DO NOT** write your names and index number on additional answer sheets if provided.
- 2) Do not open this question paper until you are told to do so.
- 3) This paper consists of one compulsory question. **(20 marks)**
- 4) Use only a **blue** or **black** pen.

ALL QUESTIONS ARE COMPULSORY (20 marks)

- 1) You are provided with specimens **X** and **Y**
 a) Which part of the plant are the specimen?

Name:..... (1 mark)

Reason:..... (3 marks)

- b) Cut the specimens **X** and **Y** transversely.
 Identify the specimens **X** and **Y**.

X..... (1 mark)

Y..... (1 mark)

- c) Outline five differences between specimen **X** and **Y**. (5 marks)

| Specimen X | Specimen Y |
|-------------------|-------------------|
| (i) | |
| (ii) | |
| (iii) | |
| (iv) | |
| (v) | |

- d) Explain how the specimens are dispersed. (1 mark)

- e) Explain the arrangement of seeds in the specimens **X** and **Y**.

(i) Specimen **X**. (2 marks)

(ii) Specimen **Y**. (2 marks)

- f) Draw and label one half section of specimen **X**. (4 marks)