

BIOLOGY 2

0510

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination

JUNE 2020

ORDINARY LEVEL

Subject Title	BIOLOGY
Paper No	2
Subject Code No	0510

Two and a half hours

Answer ALL FIVE questions.

All questions carry equal marks each. For your guidance, the approximate mark for each part of a question is indicated in brackets.

Begin each question on a new page.

Give labelled diagrams where these will make the answers clearer.

You are advised to read carefully through the question paper before you begin your answers.

You are reminded for the necessity of good English and orderly presentation in your answers.

In calculations, you are advised to show all the steps in your working, giving your answer at each stage.

Turn Over

1. (a) (i) List the characteristics of fungi
(ii) Draw a large labelled diagram of a mould Fungus such as bread mould (Rhizopus). **(4, 5 mark)**
- (b) How are Fungi useful to man? **(6 marks)**
- (c) How would you test for the presence of reducing sugar in a piece of bread? **(5 marks)**
- (Total = 20marks)**
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2. (a) Define the following:
(i) Photosynthesis
(ii) Respiration **(4, 4 marks)**
- (b) How is the leaf adapted to carry out its function of photosynthesis? **(6 marks)**
- (c) Explain what happened to the glucose produced during photosynthesis. **(6 marks)**
- (Total = 20 marks)**
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3. (a) What is reproduction? **(2 marks)**
- (b) Give the differences between sexual and asexual reproduction. **(6 marks)**
- (c) State the requirements for seed germination and give the importance of each requirement. **(4 marks)**
- (d) How will you demonstrate tropism in the shoot? **(6 marks)**
- (Total = 20 marks)**
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4. (a) Define the following:
(i) Genotype
(ii) Homozygous
(iii) Phenotype
(iv) Heterozygous
(v) Codominance **(10 marks)**

(b) In a certain garden of bean plants, the pod color is either red or green. When a pure-breeding plant with a red pods was crossed with another pure-breeding bean plant with green pods, all offspring produced red pods. When the offspring were allowed to self-pollinate, the following results were obtained: 580 beans plants had red pods while 206 had green pods.

Explain the genetics of these crosses using appropriate symbols and diagrams. **(10 marks)**

(Total = 20 marks)

5. (a) In a tabular form, state one source and one effect of the following pollutants:
(i) Carbon monoxide
(ii) Dust
(iii) Nitrogen dioxide
(iv) Oil spills
(v) Fertilizers **(10 marks)**
- (b) How does energy flow in an ecosystem? **(5 marks)**
- (c) How does carbon circulate in nature? **(5 marks)**

