

Biology 2
510

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination

JUNE 2012

ORDINARY LEVELS

Subject Title	Biology
Paper No.	2
Subject Code No.	510

Two hours

Answer FOUR questions, Two from Section A and TWO from Section B. All questions carry equal marks.

Marks allocated to parts of questions are indicated in brackets.

If more than two questions are answered in Section A or B, only the FIRST TWO shall be marked.

Give labelled diagrams where these will make the answer clearer

Begin each question on a new page.

You are reminded for the necessity for good English and orderly presentation of your work

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SECTION A

1. (a) State the characteristics of living organisms and give the importance of each characteristic to the organism.
(b) How do plants obtain and transport nutrients to their leaves

2. (a) State the importance of water to plants
(b) Describe the adaptation to bony fish to life in water

3. (a) What is pollination?
(b) What are the effects of the following human activities on the environment?
 - (i) Deforestation
 - (ii) Industrialisation, and
 - (iii) Combustion of fuels

4. (a) Make a large labelled diagram of the male reproductive system
(b) State the function of the following in reproduction in mammals
 - (i) Vagina
 - (ii) Uterus
 - (iii) Breasts
(c) Describe the birth process of humans.

SECTION B

5. (a) Distinguish between aerobic and anaerobic respiration
(b) Describe how you would show experimentally that germinating seeds evolve heat energy during aerobic respiration

6. (a) Define the following terms as used in genetics
 - (i) Genes
 - (ii) Mutation
 - (iii) Homozygous
 - (iv) Phenotype
 - (v) Monohybrid cross
(b) When a pure breeding bean plant with green pods was crossed with another pure breeding bean plant with red pods, all the offspring produced had green pods.
The offspring were allowed to self-pollinate and the following results were obtained, 428 bean plants had green pods while 152 had red pods.
Explain the genetics of the crosses using appropriate diagram and symbols

7. (a) Define the term digestion
Why is it necessary in living organism?
(b) Make a large labelled diagram of the human digestive system
(c) How is the ileum adapted to carry out its absorptive functions?

8. (a) Describe the events which takes place when the hand accidentally touches a hot object
(b) Explain how the skin functions as a homeostatic organ in mammals.

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