



BIOLOGY 2  
0510

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination

JUNE 2018

ORDINARY LEVEL

|                  |         |
|------------------|---------|
| Subject Title    | Biology |
| Paper No.        | 2       |
| Subject Code No. | 0510    |

Two Hours

Answer ALL the FIVE questions.

All questions carry 20 marks each. For your guidance, the approximate mark for each part of a question is indicated in brackets.

You are reminded of the necessity for 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.

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Turn Over



1. (a) Define the following terms:  
(i) Diffusion  
(ii) Osmosis  
(iii) Active transport  
(3,3,3 marks)
- (b) How is Osmosis important to living organisms? (5 marks)
- (c) How is water important to plants? (6 marks)
- (Total = 20 marks)
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2. (a) Describe the digestion of protein in humans. (8 marks)
- (b) How is protein important in living organisms? (7 marks)
- (c) How will you test for protein in groundnuts? (5 marks)
- (Total = 20 marks)
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3. (a) Define the terms:  
(i) Hormone  
(ii) Stimulus  
(5, 5 marks)
- (b) State the functions of the following hormones in the human body:  
(i) Adrenaline  
(ii) Oestrogen  
(5, 5 marks)
- (Total = 20 marks)
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4. (a) Explain the following terms as used in environmental biology.  
(i) Ecosystem.  
(ii) Pollution  
(4, 5 marks)
- (b) Explain how environmental factors affect the rate of photosynthesis. (6 marks)
- (c) Describe the circulation of carbon in nature. (5 marks)
- (Total = 20 marks)
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5. (a) Compare Mitosis and Meiosis. (10 marks)
- (b) The offspring resulting from a cross between a red butterfly and a blue butterfly were violet in Colour.  
(i) With the aid of appropriate symbols and diagrams, show the genetics of the above cross.  
(ii) What would you expect the generation of butterflies to be when the violet butterflies were crossed with the red butterflies?  
(5, 5 marks)
- (Total = 20 marks)