

Biology 3
0710

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination

JUNE 2017

ADVANCED LEVEL

Subject Title	Biology
Paper No./Title	3- Practical
Subject Code No.	0710

FIRST GROUP

Three hours

Answer ALL FOUR questions. The allocation of marks is shown at the end of each question.

Great importance is attached to the accuracy and labelling of the drawings.

You are reminded of the importance of using a hand lens or a microscope where appropriate.

1. (a) For each of eight specimen (A to H) provided, state
 (i) the name of the major group (Phylum) to which it belongs.
 (ii) the name of the subgroup (Class) to which it belongs and
 (iii) the specific or common name.

Your answer to this question should be written in your answer book in columns as shown below.

Specimen	i	ii	iii
A			
B			
C			
etc			

- (b) Examine closely specimens G and H. (8 marks)
 For each specimen give four external structural adaptations to its mode of life. (8 marks)
 (c) What economic importance is H. (2 marks)
 (d) Give two structural differences between specimens C and E. (2 marks)
(Total = 20 marks)

2. (a) Using a hand lens, examine carefully, draw and label the dorsal view of specimen A. (6 marks)
 (b) Using only visible structural features, state why specimens A and D are grouped in:
 (i) the same major group and
 (ii) different sub-groups. (7 marks)
 (c) Make a drawing of the head region of specimen F and annotate two parts of biological interest. (7 marks)
(Total = 20 marks)

3. (a) Dissect the thoracic and abdominal regions of the bird provided to display organs concerned with respiration, circulation, digestion, excretion and reproduction. Make a drawing of your dissection and label fully. (13 marks)
 (b) Annotate **three** features each in your diagram that are concerned with
 (i) respiration and (6 marks)
 (ii) digestion. (6 marks)
(Total = 25 marks)

Leave your dissection properly displayed for assessment after the examination.

4. (a) You are provided with germinating bean seeds.
 Using only the materials provided, test for the presence of various classes of food in the germinating bean seeds.
 Give a detailed description of your methods and results. (10 marks)
 (b) Comment critically on your results. (5 marks)
(Total = 25 marks)