

Human Biology 2

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination

ORDINARY LEVEL

JUNE 2015

Subject Title	Human Biology
Paper No.	Paper 2
Subject Code No.	0565

Two and a half Hours

You are required to answer FIVE questions choosing THREE from Section A and TWO from section B. All the questions carry equal marks and marks allocated to parts of questions are indicated.

Extra questions answered from each section shall NOT be marked.

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

Turn Over

## SECTION A

Answer **THREE** questions from this section

1. (a) Explain what is meant by the terms:  
(i) Tissue  
(ii) Organ
- (b) Name the four basic types of tissues in the human body and state their main functions.
- (c) State the functions of the following cell organelles:  
(i) Mitochondrion  
(ii) Lysosome  
(iii) Rough endoplasmic reticulum
- (4, 8, 8 marks)
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2. (a) What is excretion and why is it necessary in living organisms?
- (b) List FOUR substances excreted by body cells, stating how each of them is eliminated from the body.
- (c) Describe how the kidney nephron carries out its function in osmoregulation.
- (4, 8, 8 marks)
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3. (a) Draw a large and neatly labeled diagram of the forearm showing its antagonistic muscles.
- (b) List the components of bone
- (c) Describe simple experiments to determine the components of bone.
- (7, 3, 10 marks)
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4. (a) Define the term homeostasis.
- (b) Describe the role played by the liver in homeostasis.
- (c) In tabular form, list the other organs involved in homeostasis and the factor each regulates.
- (3, 11, 6 marks)
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5. (a) Draw a large and neatly labeled diagram of the vertical section through the male reproductive system.
- (b) Describe the birth process.
- (c) What are the functions of the placenta?
- (7, 9, 4 marks)

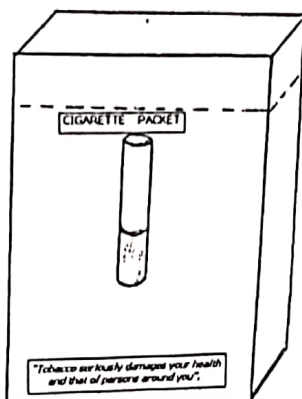
## SECTION B

Answer TWO questions from this section.

- (a) In what FIVE ways are buildings (houses) useful to man?
- (b) When drawing a plan and constructing a house, what measures should be put in place to ensure proper ventilation?
- (c) State the advantages of natural lighting over artificial lighting

(5, 8, 7 marks)

A CIGARETTE PACKET



The cigarette package above carries the warning message "TOBACCO SERIOUSLY DAMAGES YOUR HEALTH AND THAT OF PERSONS AROUND YOU."

- (a) Discuss the significance of this warning.
- (b) Is this warning effective?

(18, 2 marks)

8. (a) Construct a suitable food chain with four trophic levels.
- (b) Define the following terms using examples from the food chain you have constructed:
  - (i) Primary producer
  - (ii) Herbivore
  - (iii) Carnivore

- (c) Explain the following relationships giving an example for each:
  - (i) Mutualism
  - (ii) Commensalism
  - (iii) Parasitism

(2, 6, 12 marks)

9. (a) Define the following terms commonly used to describe the spread of diseases.
  - (i) Endemic
  - (ii) Epidemic
  - (iii) Pandemic

- (b) Write short notes on these diseases under the following headings:
 

Causative agent, Method of transmission, and Method of prevention

  - (i) Athlete's foot
  - (ii) Poliomyelitis
  - (iii) Cholera
  - (iv) Tuberculosis

- (c) Why is it advisable to prevent contracting a disease than to cure it?

(3, 3, 3, 3, 5 marks)