

0565 Human Biology 2

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination

JUNE 2018

ORDINARY LEVEL

Subject Title	Human Biology
Paper No.	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

SECTION A

Answer THREE questions from this Section Draw a large and neatly labelled

1. (a) diagram of the human digestive system.
(b) Explain how the mammalian teeth are adapted to their functions.
(c) What role does bile play in digestion?
(10, 7, 3 marks)
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2. (a) Define the following terms:
(i) Nerve impulse
(ii) Effector

(b) Describe how a nerve impulse is transmitted:
(i) Along a nerve cell,
(ii) Across a synapse.

(c) How does the body react in cases of emergency?
(4, 12, 4 marks)
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3. (a) List the components of blood.
(b) Describe the transport functions of blood.
(c) How is blood different from lymph?
(5, 10, 5, marks)
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4. (a) Draw a large and neatly labelled diagram of the human urinary system.
(b) In a tabular form state the main excretory organs in the human body, their excretory products and means of elimination.
(8, 12 marks)
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5. (a) Draw a large and neatly labelled diagram of the human sperm cell.
(b) Describe the birth process in a human female.
(c) Explain what birth control methods you would recommend to the following:
(i) A young female student at the university.
(ii) A woman at 40 years of age with 10 children who does not want any more kids.
(iii) A newly married couple who do not want to have children immediately.
(6, 8, 6 marks)
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SECTION B
Answer TWO questions from this Section

6. Fungi lack chlorophyll and live either as saprophytes or parasites. They are usually non-motile. Some fungal diseases are ringworm and athlete's foot. However, some fungi are useful to man as food and in the food processing industry.

(a) Define each of the following terms as used in the passage:

- (i) Parasites
- (ii) Saprophytes
- (iii) Non- motile

How can one contract (get infected with) ringworm and athlete's foot?

(b)

(c) State seven other uses of fungi to man.

(d) What conditions are needed for the growth and reproduction of Fungi?

(5, 4, 7, 4 marks)

7. (a)

What is:

- (i) Sewage?
- (ii) Refuse?

(b) List and describe the various methods of garbage disposal in a community.

(c)

How may sewage be treated in the absence of a modern sewage treatment plant?

(4, 10, 6, marks)

8. (a)

Define the following ecological terms;

- (i) Ecosystem
- (ii) Community

(b)

In a pond ecosystem, green algae are eaten by tadpoles, pond snails and mosquito larvae. Water beetles and water-boat-men feed on the tadpoles. Small fishes feed on the pond snails and mosquito larvae, while large fishes feed on the small fishes, water-boat-men and tadpoles. The small fishes and large fishes are in turn eaten by man.

Construct a suitable food web for this ecosystem and indicate the different trophic levels.

(c)

State the harmful effects of the following on the environment:

- (i) Deforestation.
- (ii) Eutrophication

(5, 7,8 marks)

9 (a)

Explain the importance of the following to healthy living:

- (i) Regular physical exercises
- (ii) Adequate rest and sleep

(b) State the harmful (dangerous) effects of excessive alcohol consumption to the body.

(c) What are the dangers of self-medication?

(10, 7, 3 marks)