

**GENERAL CERTIFICATE OF EDUCATION BOARD**  
General Certificate of Education Examination

**JUNE 2025**

**ORDINARY LEVEL**

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

**Duration: 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

1. (a) What is a skeleton? (2 marks)  
 (b) Give FIVE functions of the human skeleton. (5 marks)  
 (c) Describe how movement occurs at the elbow joint. (13 marks)  
**(Total = 20 Marks)**

2. (a) Draw a large and neatly labelled diagram of a cross section of the spinal cord showing the components of a reflex arc. (7 marks)  
 OR Describe the structure of the spinal cord.  
 (b) Describe the sequence of events that occurs when you mistakenly prick your finger with a needle. (11 marks)  
 (c) How is a reflex action different from learning? (2 marks)  
**(Total = 20 Marks)**

3. (a) Define nutrition. (2 marks)  
 (b) Write short notes on the following classes of food indicating their chemical composition, basic building units, two functions and an example in each case:  
     (i) Carbohydrates  
     (ii) Proteins  
     (iii) Lipids. (5, 5, 4 marks)  
 (c) Name ONE deficiency disease caused by the absence of the following in the diet:  
     (i) Calcium  
     (ii) Vitamin A  
     (iii) Vitamin C  
     (iv) Proteins (4 marks)  
**(Total = 20 Marks)**

4. (a) Draw a large and neatly labeled diagram of the general plan of human blood circulation. (8 marks)  
 OR Describe the general plan of the human blood circulation.  
 (b) Explain how a molecule of glucose absorbed in the ileum will be transported to the brain. (6 marks)  
 (c) In tabular form state SIX differences between veins and arteries. (6 marks)  
**(Total = 20 Marks)**

5. (a) Draw a large and neatly labelled diagram of a longitudinal section through the female reproductive system.  
 OR Describe the structure of the longitudinal section through the female reproductive system. (6 marks)  
 (b) Explain how:  
     (i) Sex is determined in humans (6 marks)  
     (ii) The birth process occurs. (8 marks)  
**(Total = 20 Marks)**



## SECTION B

**Answer TWO questions from this section.**

6. (a) Explain the meaning of the following terms;  
 (i) Infectious disease  
 (ii) Epidemic disease  
 (iii) Incubation period
- (b) How are contagious diseases spread? (2, 2, 2 marks)
- (c) Using the following headings describe the disease cholera (8 marks)  
 (i) Causative agent  
 (ii) A mode of transmission  
 (iii) Two symptoms  
 (iv) Two control measures.
- (6 marks)  
**(Total = 20 Marks)**
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7. (a) Give **FIVE** reasons why it is important for Local Council Authorities to approve the plan of a house before it is constructed. (5 marks)
- (b) What are the advantages of natural lighting over artificial lighting in housing? (8 marks)
- (c) How may a kitchen be kept hygienic to prevent the spread of diseases at home? (7 marks)
- (Total = 20 Marks)**
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8. (a) How does the regular intake of large quantities of alcohol affect:  
 (i) Individuals  
 (ii) The society? (4, 5 marks)
- (b) How may excessive alcohol consumption be combated? (5 marks)
- (c) Beside alcohol, name **THREE** other drugs common among youths and their harmful effects on youths. (6 marks)
- (Total = 20 Marks)**
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9. Describe the roles of each of the following institutions in the community:  
 (a) A hospital (6 marks)  
 (b) An antenatal clinic (8 marks)  
 (c) A reformatory school. (6 marks)
- (Total = 20 Marks)**
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