



Examination for General Certificate of Education Ordinary Level

5090/2

7772905

9 JULY 2026

Marks: 80

Instructions to Candidates

- 1 Write the **centre number** and your **examination number** in the spaces provided on this page.
- 2 Write your **examination number** in the spaces provided on **every page** of this question paper.
- 3 There are **two** sections in this paper, **Section A** and **B**.
- 4 **Section A**
There are **five** questions in this section. Answer **all**.
Write your answers in the spaces provided in this question paper.
- 5 **Section B**

Information for Candidates

- 1 The number of marks is given in brackets [] at the end of each question or part question.
- 2 You are advised to spend no longer than 40 minutes on **Section A**.
- 3 Cell phones and other electronic devices are **not allowed** in the examination room.

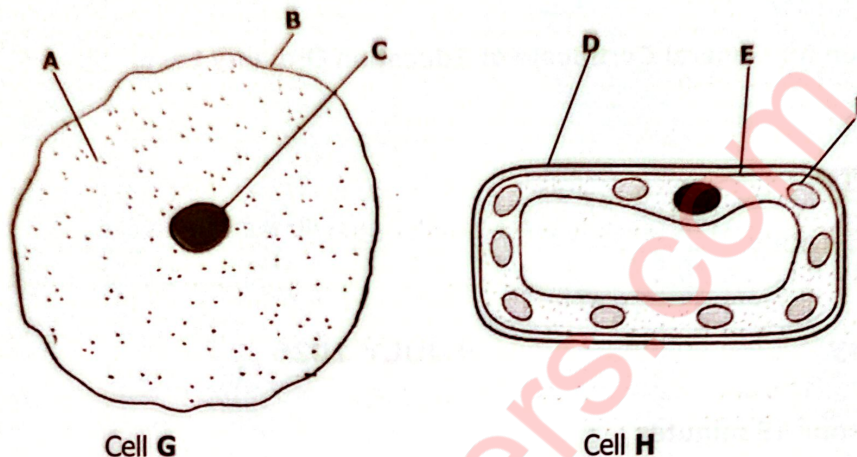
For Examiners' Use		
For Candidate's Use	Mark Obtained	Examiner's Initials
Section A		
1		
2		
3		
4		
5		
Section B		
Total		

Examination Number														

Section A: Short answer questions [44 MARKS]

Answer **all** the questions in the spaces provided in the question paper.

- 1** Figure 1 shows two generalised cells from two different living organisms.

**Figure 1**

- (a) (i) Identify the parts labelled C, D, and E.

C [3]
 D
 E

- (ii) State **two** ways in which cell G differs from cell H.

1 [1]
 2 [1]

- (b) Explain the functions of the following cell organelles;

(i) Golgi bodies [1]
 [1]
 (ii) Endoplasmic reticulum. [1]
 [1]
 (iii) Mitochondria [1]
 [1]

- (c) Identify the **two** labelled parts, one from cell G and one from cell H which perform the same function.

..... [1]

[Total: 9 marks]

2 The following are dental formulae of animals **P** and **Q**;

$$\mathbf{P} \quad \begin{array}{cccc} \text{I} & \frac{3}{3} & \text{C} & \frac{1}{1} & \text{PM} & \frac{4}{4} & \text{M} & \frac{2}{3} \end{array}$$

$$\mathbf{Q} \quad \begin{array}{cccc} \text{I} & \frac{2}{2} & \text{C} & \frac{1}{1} & \text{PM} & \frac{2}{2} & \text{M} & \frac{3}{3} \end{array}$$

(a) Identify animals **P** and **Q**.

P [1]

Q [1]

(b) State the name given to animals with dental formula **P** and **Q**.

P [1]

Q [1]

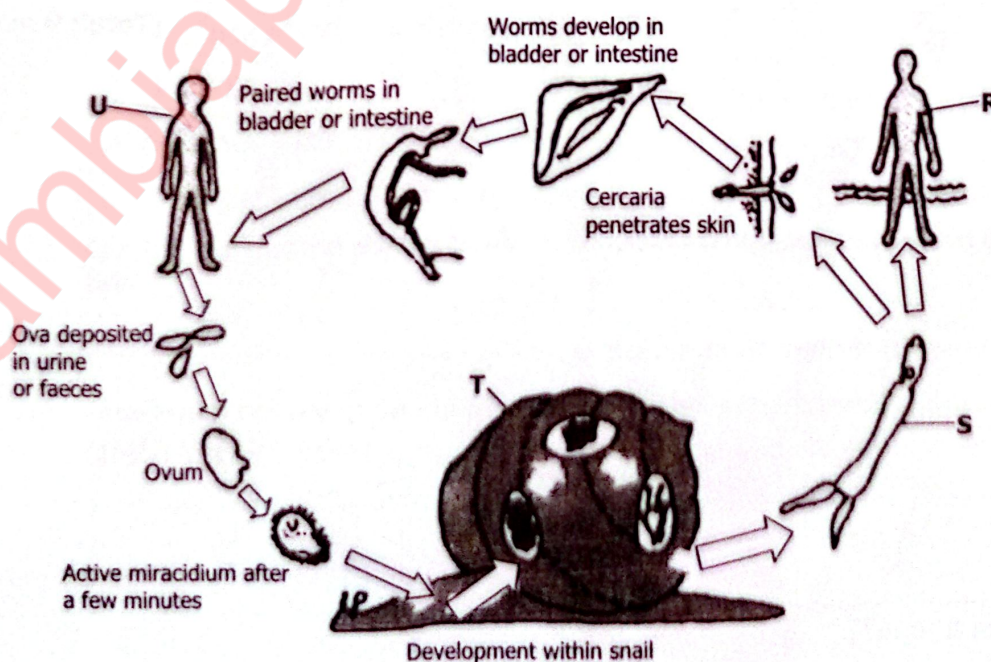
(c) The table shows types of teeth, their adaptation and function. Complete it by filling in the missing parts.

Type of Teeth	Adaptation	Function
Incisors	(i)	Cutting
Canines	Pointed	(ii)
Premolars	(iii)	Grinding
Molars	(iv)	(v)

[5]

[Total: 9 marks]

3 **Figure 3** shows a transmission cycle of a disease called Schistosomiasis.



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- (a) (i) What common name is given to this disease called Schistosomiasis?
 [1]
- (ii) To which type of diseases does Schistosomiasis belong?
 [1]
- (b) From **Figure 3**, identify the following:
- (i) Causative agent,
 [1]
- (ii) Primary host,
 [1]
- (iii) Secondary host.
 [1]
- (c) State **one** sign and **one** symptom of Schistosomiasis.
- Sign [1]
- Symptom [1]
- (d) State **two** ways of preventing the transmission of Schistosomiasis.
- 1 [1]
- 2 [1]

[Total: 9 marks]

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4 Figure 4 shows different types of organisms.

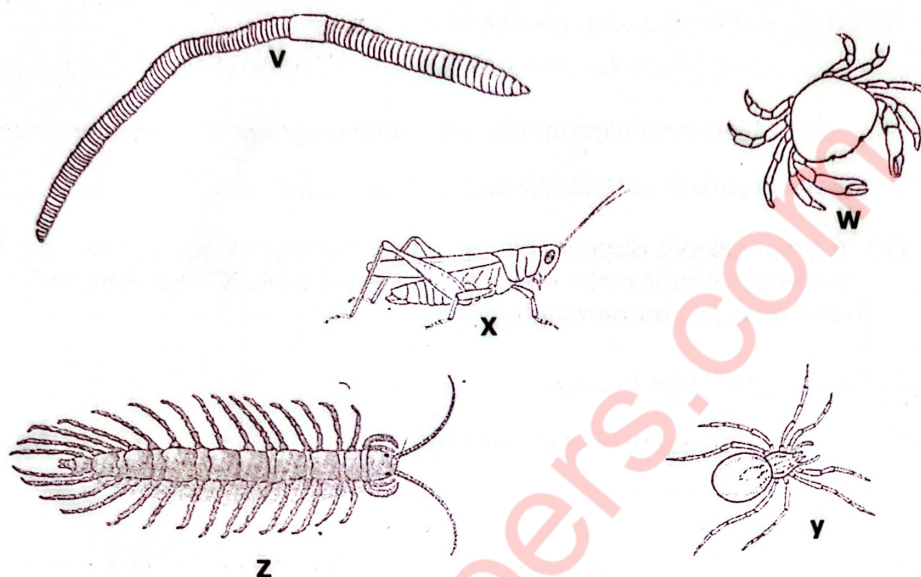


Figure 4

(a) Complete the following dichotomous key by filling in the labelled blank spaces (i) to (iv), as a way of identifying the given organisms using the letter used to label them.

- 1 Jointed limbs go to 2.
 No jointed limbs V
- 2 More than 5 pairs of jointed limbs ... (i)
 5 or fewer pairs of jointed limbs ... go to 3.
- 3 First pair of limbs form large claws ... (ii)
 No large claws ... go to 4.
- 4 3 pairs of limbs ... (iii)
 4 pairs of limbs ... (iv) [4]

(b) Give the name of the phylum to which the identified organisms in Figure 4 belong.

..... [1]

(c) Organism X belongs to the class insecta. State **three** characteristic features of organisms in this class.

- 1 [1]
- 2 [1]
- 3 [1]

[Total: 8 marks]

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5 Haemophilia is a sex linked characteristic.

(a) (i) Define the term sex-linked characteristic.

..... [2]

(ii) Apart from haemophilia, name one other sex linked characteristic.

..... [1]

(b) Using a genetic diagram, explain how a haemophilic son can be born from a non-haemophilic mother and father. Let the allele X^H represent non-haemophilic and X^h represent haemophilic.

[6]

[Total: 9 marks]

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Section B: Essay questions [36 MARKS]

Answer any **three** questions from this section. Write your answers in the spaces provided within this question paper from page **8 to 19**. All answers must be in complete sentences and in paragraphs.

1 (a) Describe the movement of water from the soil to the leaves in a plant. [9]

(b) Explain the process of transpiration. [3]

[Total: 12 marks]

2 (a) Describe the digestion of proteins in the alimentary canal of human beings. [8]

(b) Explain the following processes that take place in the human body:

(i) Absorption

(ii) Assimilation [4]

[Total: 12 marks]

3 (a) Identify the bones of named types of mammalian skeletons. [6]

(b) Describe the functions of the skeleton. [6]

[Total: 12 marks]

4 (a) Explain the differentiation of primary and secondary tissues in plants. [6]

(b) Compare and contrast hypogeal and epigeal germination of seeds. [6]

[Total: 12 marks]

5 (a) Describe the carbon cycle. [6]

(b) Explain the importance of conserving plant and animal species. [6]

[Total: 12 marks]