

PRESIDENT'S OFFICE  
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT  
UKEREWE DISTRICT COUNCIL



FORM ONE EXAMINATION  
BIOLOGY

Time 2:30 Hours

Year 2025

**INSTRUCTIONS**

- This paper consist of sections **A,B** and **C**
- Answer all questions in section **A, B** and **C**
- All writing must be in blue or black ink
- All answers must be written in the spaces provided.
- Cellular phones are not allowed in the examination room
- Write your Examination Number at the top right corner of every page

**SECTION A (15 Marks)**

1. Choose the most correct answer among the given alternatives and write it in the box provided below.
- i. A bacterium can be distinguished from an amoeba in that it possesses;  
A. Cytoplasm    B. Chloroplast    C. Cell wall    D. Vacuole
  - ii. Which of the following is the functional unit of life?    A.  
Tissue    B. Cell    C. Organ    D. System.
  - iii. Which of the following structures controls the movement of materials in and out the cell:  
A. Nucleus    B. Chloroplast    C. Cell membrane    D. Vacuole
  - iv. A mother went to the hospital with her baby complaining for the baby's high blood temperature. Which instrument will be used to examine the baby?  
A. Thermometer    B. Beam balance    C. Stop watch    D. Stethoscope
  - v. Which part of microscope is responsible for magnification of a specimen?    A.  
Mirror    B. Eyepiece    C. Stage    D. Base.
  - vi. Which one of the following organizations show the correct order from simplest to the most complex?  
A.    Cells, organelles, organs, tissues and organ systems  
B.    Organelles, organs, cells, tissues, and organ systems  
C.    Organelles, cells, t issues, organs and organ systems  
D.    Organs, tissues, cells, organelles and organ systems

- vii. Which part of the microscope should one use to regulate the amount of light passing from the mirror to the condenser?  
 A. Stage clip B. Diaphragm C. Hinge screw D. Ocular tube.
- viii. During experiment the students observed an organism's cell that had nucleus not bounded by membrane, from which organism was the cell taken?  
 A. Human being B. A maize C. Bacterium D. Viruses
- ix. The aim of the experiment in Biological investigation is to:  
 A. Test hypothesis B. Confirm result C. Interpret the data D. Identify the problem
- x. The sense organ in human responsible for sight is called:  
 A. Ear B. Nose C. Eye D. Brain

2. Match each item from LIST A with its corresponding item in LIST B, and write its letter in the box provided.

<b>LIST A</b>	<b>LIST B</b>
i. Kingdoms.	A. Natural and Artificial system.
ii. Classification ranks.	B. Division, genus, species
iii. Types of classification system.	C. Monera and Animalia.
iv. Scientific naming.	D. Binomial nomenclature Homo sapiens.
v. Human being.	E. Zea mays.
	F. Zea mays.

**SECTION B (70 Marks).**

Answer all questions from this section.

3. (a) Outline seven steps for carrying out scientific investigation.  
 ( b) State the sense organ used in making the following observations.
- i. Colour change during food test experiment .....
- ii. Identify the smell of a flower .....
- iii. Identify the texture of sand .....
4. (a) Why do we need to classify living organisms in our daily life? (Give two reasons)  
 (b) Give three examples of cells found in.

- i. An animal body .....
- ii. A plant body .....

(c) Complete the table below by filling in the blanks.

	Eyepiece lens magnification	Objective lens magnification	Magnification of object under observation
i.	X15	.....	X150
ii.	X10	X20	.....

5. a) By giving five points from each compare and contrast between onion cell from housefly cell.

- (i) Comparison between onion and housefly cell.
- (ii) Contrasting between onion and housefly cell.

6. Name the laboratory apparatus used in the following activities.

- i. Magnifying substance .....
- ii. Catching flying insects .....
- iii. Keeping specimens .....
- iv. Crushing things .....
- v. Measuring mass .....

7. Draw a well labelled diagram used for magnification of microorganisms which does not seen by our naked eyes.

8. Biology is more than a study of animals and plants. Give five reasons.

9. Sekela put a bread in a wet cupboard. After a few days black thread-like structures which ended up in club-like shape appeared on the bread.

- (a) Give the common name of the organism that grew on the bread surface
- (b) Name the kingdom in which the observed organism belong.....
- (c) Name the phylum or division in which the observed organism belong
- (d) Outline five economic importance of the members of the kingdom you mention in 9(b)
- (e) Name other phyla or divisions of the kingdom mentioned in 9(b) other from the phylum or division you mentioned in 9(c)

**SECTION C (15 MARKS)**

10. Kingdom plantae includes organisms which are able to manufacture their own food. Write an essay on the importance of plants in real life situations.

Student's Assessment Number .....