

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



FORM THREE EXAMINATION
BIOLOGY

TIME 3:00 Hours

Year: 2025

INSTRUCTIONS

1. This paper consists of three Sections A, B and C with a total of **eleven (11)** questions.
2. Answer **all** questions in section A and B and **two (2)** questions from section C.
3. Section A carries **16** marks, section B carries **54** marks and section C carries **30** marks.
4. Phones and any unauthorized materials are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s)

SECTION A (16MARKS)

1. For each of the item (i)-(x) choose the most correct answer from among of the given alternatives and write its letter beside the item number in the answer sheet
 - (i). Which of the following apparatus are used to magnify specimens?

A. Hand lens and Measuring cylinder	C. Hand lens and Microscope
B. Hand lens and Watch glass	D. Hand lens and Petri dish
 - (ii). The following are the characteristics Prokaryotes EXCEPT

A. They are single celled organism	C. They are microscopic
B. They have cell wall	D. They have nuclear membrane
 - (iii). Which safety precaution should be taken when administering First Aid to any wounded person?

A. Wash hands with soap	C. Wearing protective gloves
B. Calling the ambulance for pick-up	D. Drying the wound with soap
 - (iv). The best method to dispose plastic bottles is

A. Recycling	B. Landfill	C. Burying	D. Incineration
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 - (v). Which respiratory surface is used for gaseous exchange in tadpole?

A. Spiracle	B. Gills	C. Lungs	D. Book lungs
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 - (vi). Which of the following are the end products of digestion when lipids are completely digested?

A. Fatty acid and glycerol	C. Glucose and fructose
B. Fatty acid and amino acid	D. Glucose and glycerol
 - (vii). Which component of the nervous system receive impulses from receptors

A. Relay	B. Coordinator	C. Motor	D. Effector
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(viii). Which process allows absorption of water of water and mineral salt from the soil in plants

- A. Osmosis B. Diffusion C. Mass flow D. Regulation

(ix). An individual who is riding a bicycle can waste a lot of water through sweating. Which of the following organs is responsible for the water loss?

- A. Stomach B. Kidney C. Skin D. Liver

(x). Animals in which fertilization occur internally and zygote grows, develop and obtain its nourishment from mother's body are known

- A. Ovoviviparous B. Viviparous C. Oviporous D. Ovoviparous

2. Match the description of the vitamin deficiency diseases in LIST A with their corresponding vitamin deficiency in LIST B by writing the letter of the correct response beside the item number in the answer sheet provided

LIST A	LIST B
(i) Rickets (ii) Night blindness (iii) Scurvy (iv) Excessive bleeding (v) Beriberi (vi) Pellagra	A. Cobalamine B. Quinnone C. Riboflavin D. Calciferols E. Thiamine F. Ascorbic acid G. Tocopherol H. Retinols

SECTION B (54 MARKS)

Answer all questions in this section

3. (a) How is human urinary system adapted to perform its role effectively. Give four points.
- (b) Briefly explain factors that may hinder fertilization in human. Give four (5) points.
4. (a) The placenta is site of exchange of substances between the mother and the foetus
- Name four substances that are exchanged between the mother and the foetus
 - List down three adaptations of the placenta to its function
- (c) Draw a well labeled diagram of exchange of substance between the blood of the embryo and the mother
5. (a) On the way to Ukerewe madam Lucy observed a road accident that caused injuries to some passengers. While asking herself about what to do to help the victims, she found a small box with a Red Cross on its top in vehicle.
- Suggest and explain the term used to name the box.
 - Identify four (4) items from the box and explain how madam Lucy would use them to assist the victims.
 - State five (5) significance of the process done by madam Lucy

6. Max is an international footballer, while playing during Kariakoo derby he suddenly felt an involuntary contraction of muscles on his leg which prolonged and last for few second to several minutes.

- (a) Name the condition experienced by Max
- (b) Explain four causes of the named condition above
- (c) Identify any two measures that can be used to prevent this condition.

7. (a) Give the function of the blood components(four points)

(b)Blood circulation is essential for any mammal in everyday life. Justify (five points)

8. Recent environmental publication and report condemns on serious environmental pollution resulting from poor waste disposal.

(a) If you could be assigned to educate people on how the condemned issue can keep them unsafe. Use four (4) points to do so.

(b) “Dispose waste properly to avoid environmental pollution” Use three (3) principles to support this statement.

SECTION C (30 MARKS)

Answer only **TWO (2)** questions from this section.

9. (a)Why excretion is important process in human being ?

(b)How human urinary system is adopted to its function?

10. Explain six (6) roles of the skin in the human body.

11. Due to different reasons, many young people are now engaging in taking drugs such as marijuana and cocaine. Explain any three ways which such drugs are normally taken and hence advise the youth on three proper ways of handling drugs.

