

Student's Assessment Number

THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
FORM TWO NATIONAL ASSESSMENT

033

BIOLOGY

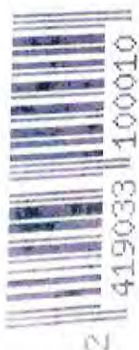
Year: 2024

Time 2:30 Hours

Instructions

1. This paper consists of sections A, B and C with a total of **ten (10)** questions.
2. Answer **all** questions in the spaces provided.
3. Section A carries **fifteen (15)** marks, section B **seventy (70)** marks and section C carries **fifteen (15)** marks.
4. All writing must be in **blue** or **black** ink, **except** drawing which must be in pencil.
5. Communication devices and any unauthorised materials are **not** allowed in the assessment room.
6. Write your **Assessment Number** at the top right corner of every page.

FOR ASSESSOR'S USE ONLY		
QUESTION NUMBER	SCORE	ASSESSOR'S INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
TOTAL		
CHECKER'S INITIALS		



- (ix) Your friend complains of passing out hard and dry faeces. Which practice would you advise him to treat the problem?
- A Limiting the amount of fruits in the diet
 - B Ignoring the urge to go for a long call
 - C Taking adequate amount of fibres in the diet
 - D Reducing the intake of vegetables and fruits

- (x) Study the following set of diseases then answer the question that follow:

- (i) Malaria and bilharzia
- (ii) Syphilis and gonorrhoea
- (iii) Tuberculosis and plague
- (iv) Hepatitis B and AIDS

- Which diseases are transmitted through unprotected sexual intercourse?
- A (iii) and (iv)
 - B (i) and (ii)
 - C (i) and (iv)
 - D (ii) and (iv)

2. Match the uses of First Aid components in **List A** with their corresponding components in **List B** by writing the letter of the correct response below the item number in a table provided.

List A		List B	
(i)	Reducing muscle pain.	A	Sterile gloves
(ii)	Cleaning and drying wounds.	B	Adhesive bandage
(iii)	Covering small wounds.	C	Cotton wool
(iv)	Securing bandages.	D	Liniment
(v)	Treating burns and scalds.	E	Petroleum jelly
		F	Pain killers
		G	Scissors
		H	Safety pins

Answer

List A	(i)	(ii)	(iii)	(iv)	(v)
List B					

SECTION B (70 Marks)

Answer **all** questions in this section.

3. (a) Outline seven steps for carrying out scientific investigation.

- (i)
- (ii)
- (iii)
- (iv)
- (v)
- (vi)
- (vii)

(b) State the sense organs used in making the following observations.

- (i) Colour change during food test experiment.
.....
- (ii) Identifying the smell of a flower
.....
- (iii) Identifying the texture of sand.
.....

4. Briefly explain five methods of preventing the spread of malaria.

- (i)
- (ii)
- (iii)

(iv)

(v)

5. (a) What are the four major requirements for Photosynthesis to take place?

(i)

(ii)

(iii)

(iv)

(b) In three points, support the statement that "Photosynthesis is an important process to the living organisms."

(i)

(ii)

(iii)

6. How does gaseous exchange occur across the alveolus? Briefly explain by giving five points.

(i)

(ii)

(iii)

(iv)

(5)

(a) Draw the external structure of a plant leaf and label its four parts.



(b) State one function of any two parts which you have labelled in 7 (a).

(i)

.....

.....

.....

.....

(ii)

.....

.....

.....

.....

8. (a) Classify the organisms given in the Table from Kingdom to the Phylum level.

Organisms	Kingdom	Phylum
(i) Plasmodium		
(ii) Amoeba		
(iii) Mushroom		

(b) Provide one disadvantage of the following organisms to human being.

(i) Amoeba

.....

.....

.....

.....

(ii) Mushroom

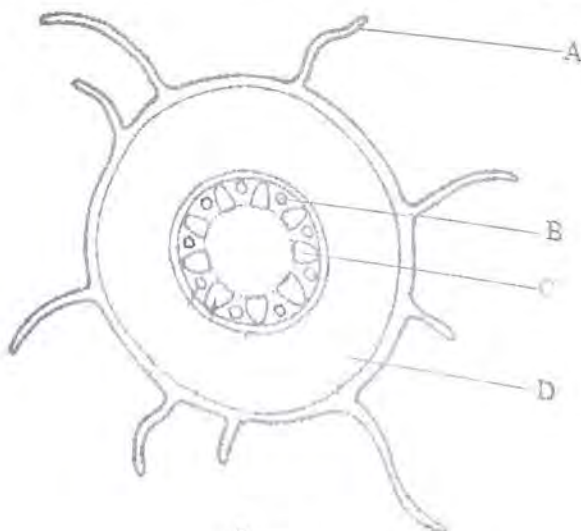
.....

.....

.....

.....

9. The following Figure shows the arrangement of vascular bundles in a monocotyledonous root. Study it careful and answer the questions that follow:



Student's Assessment Number

Student's Assessment Number

Handwriting practice lines consisting of multiple rows of dotted lines on a white background, designed for tracing or copying practice.

Find this and other free resources at:

<https://maktaba.tetea.org>