

Student's Assessment Number .....

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

033

BIOLOGY

Time 2:30 Hours

Year: 2023

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. Cellular phones 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		









**SECTION B (70 Marks)**

Answer **all** questions in this section.

3. (a) Identify the communicable and non-communicable diseases from the following list:  
Marasmus, Scurvy, Cholera, Tuberculosis, Pellagra, Leukaemia, Malaria and Syphilis.

(i) Communicable diseases

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(ii) Non communicable diseases

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- (b) How is each of the communicable disease sorted in (a) (i) transmitted?

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4. Form Two students were asked to observe sections of plant cells using a light microscope.  
(a) Why was it necessary to use such an instrument?

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- (b) Draw a diagram of a light microscope and label the seven parts.





5. (a) How does a plant cell differ from an animal cell? Give four key points.

Plant cell	Animal cell
(i) .....	.....
(ii) .....	.....
(iii) .....	.....
(iv) .....	.....

(b) What will happen if the cell membrane is severely damaged?

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6. Your community requested you to educate them about modern methods of preserving its milk, meat, tomatoes, mangoes and vegetables. Briefly explain to them four methods for preserving such products.

(i) .....

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(ii)

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(iii)

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(iv)

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7.

(a) **Identify four components found in the First Aid kit and state the use of each one.**

(i)

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(ii)

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(iii)

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(iv)

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(b) Outline four procedures you will follow to give the First Aid to a person with the problem of nose bleeding.

(i) .....

(ii) .....

(iii) .....

(iv) .....

8. (a) State two Phyla of the Kingdom Fungi.

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(b) "Fungi are important organisms to human being." By using four points, justify this statement.

(i) .....

(ii) .....

(iii) .....



(iv)

9. Two people have been severely injured in a car accident, leading to excessive bleeding hence requiring blood transfusion.

(a) Suggest four precautions to be considered before carrying out this process.

(i)

(ii)

(iii)

(iv)



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