

PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
GAIRO DISTRICT COUNCIL
FORM TWO JOINT EXAMINATION – 02
BIOLOGY

033

17TH MAY 2023 (am)

Time 2:30 Hrs

Instructions

- This paper consists of Sections A, B and C
- Answer All questions in Sections A, B and C
- All writing must be in BLACK or BLUE ink except for diagrams which must be in pencil

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SECTION A (15 Marks)

1. For each of the items (i) – (x) choose the correct answer from among the given alternatives and write its letter in the space provided.

- i. Which of the following are examples of animal tissue?
- | | | |
|---------------------------|---------------------------|----------------------|
| a) Muscle, blood and bone | c) Muscle, liver and skin | <input type="text"/> |
| b) Skin, heart and brain | d) Brain, bone and liver. | <input type="text"/> |
- ii. If you don't have gloves, you can also use _____ to protect your hands.
- | | | |
|---------------------|----------------|----------------------|
| a) Tins | c) Plastic bag | <input type="text"/> |
| b) A piece of cloth | d) socks | <input type="text"/> |
- iii. Which of the following can be caused by burning plastic waste materials?
- | | | |
|-----------------|-----------------------|----------------------|
| a) Joint pains | c) Heart problems | <input type="text"/> |
| b) Bruised skin | d) Breathing problems | <input type="text"/> |
- iv. Hepatitis B can be prevented by.....
- | | | |
|----------------------------|---|----------------------|
| a) Eating a balanced diet. | c) Using mosquito nets. | <input type="text"/> |
| b) Vaccination | d) Not shaking hands with infected one. | <input type="text"/> |
- v. The bread mould is an example of.....
- | | | |
|------------------|------------------|----------------------|
| a) Basidiomycota | c) Ptariidophyta | <input type="text"/> |
| b) Zygomycota | d) Bryophyta. | <input type="text"/> |
- vi. Bile is produced in the
- | | | |
|-------------|-------------|----------------------|
| a) Stomach | c) Liver | <input type="text"/> |
| b) Duodenum | d) pancreas | <input type="text"/> |
- vii.enzymes converts starch to maltose.
- | | | |
|------------|--------------|----------------------|
| a) Amylase | c) Lipase | <input type="text"/> |
| b) Sucrose | d) Peptidase | <input type="text"/> |
- viii. The food conducting cell in a plant is called.....
- | | | |
|--------------|-----------|----------------------|
| a) Stomach | c) Phloem | <input type="text"/> |
| b) Epidermis | d) Xylem | <input type="text"/> |
- ix. During investigation the magnification of an object under observation can be obtained by.....
- | | | |
|-----------------------------|--------------|----------------------|
| a) Mirror | c) Diaphragm | <input type="text"/> |
| b) Eyepiece objective lens. | d) base | <input type="text"/> |

x. Conditions or factors that can change or be changed in an experiment is known as

a) Variables

c) Problems

b) Controlled variables

d) Experiment



2. Match the phrases in LIST A with the responses in LIST B by writing the letter of the correct response in LIST B below the corresponding phrase member of List A in the Table provided;

List A	List B
i) Cassava	a) Peptidase
ii) An orange	b) Sucrose
iii) Meat	c) Maltose
iv) Sugar cane	d) Lactose
v) Sunflower oil	e) Gastric juice
	f) Renin
	g) Lipase
	h) Fructose

SECTION B (70 Marks)

3. Mr. kakakuona, a biology teacher at Kibaoni secondary school put a piece of bread on a wet cupboard. After a few days certain gray substance (organisms) were observed to grow on a piece of bread.

- i. Name the organisms that grow on the bread surface.
- ii. Name the Kingdom in which the observed organisms belongs
- iii. List any three (3) advantages of the Kingdom to which the organism you named belong.

4. (a) Briefly, using one point distinguish between food preservation and food storage.
(b) Your brother who is a fisherman caught many fish. Some fish were sold, others were given to friends and neighbours and some remained. What would you advise him in order to preserve the remaining fish bearing in mind that there is no electricity in this area?

5. (a) Among the minerals most essential to our bodies are iron, calcium and sodium. Explain these minerals using the following guidelines.

- i. Roles to the body
- ii. Natural common sources.

(b) A child of 5 years was seen in Nguyami village with the following symptoms; crying unnecessary, with a swollen legs, protruded stomach and a big lead. As a student who study biology explain the following;

- i. What is the disorder / problem a child is suffering from?
- ii. What should be done to help that child to grow happily as other children?

- 6.** (a) Name the process by which food is broken down to into a simpler form that can be absorbed and utilized by the body cells for carrying out life processes.
(b) Which parts of the alimentary canal does the breakdown of food nutrients take place in human?
- 7.** (a) State the meaning of the following terms as used in Biology;
i. A cell ii. System iii. Organ.
(b) Draw a well labeled diagram of an animal cell as seen under the light microscope.
- 8.** Imagine you are a biology teacher at Gairo secondary school explain to your form one students the importance of the personal hygiene and good manners to their lives. Use any five points.
- 9.** (a) Explain the meaning of the term (waste)
(b) Outline the basic principles of waste disposal.
(c) Briefly, Outline any four (4) effects of poor waste disposal

SECTION C (15 Marks)

- 10.** There are many factors which contribute and affect the immunity of our bodies. Use six (06) points to educate your fellow students about these factors.