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

033

BIOLOGY

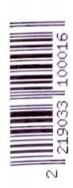
Time 2:30 Hours

Year: 2022

Instructions

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

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



Student's Assessment Number

SECTION A (15 Marks)

Answer all questions.

| | from the given altern | atives and write its letter in the |
|-----------|---|------------------------------------|
| For each | ch of the items (i) - (x), choose the correct answer from the given altern | |
| oox prov | ovided. | ith dead snots at the mara |
| | Farmers in a certain village found their maize crops have yellow lea | aves with dead spots at the marg |
| (i) | Think Which mineral do the maize crops and | |
| | A Coloium B Sulpium | |
| | C Phosphorus D Potassium | |
| | The Saranga Football Team's goalkeeper fell down during the ma | atch due to muscle cramps. Whi |
| (ii) | component in the First Aid kit will you use to give him first aid? | |
| | | |
| | A Vaseline C Liniment D Scissor | 100 m |
| 7111N | What is the main product of anaerobic respiration in animals? | |
| (iii) | A Lactic acid B Alcohol | |
| | C Water D Carbon dioxide | |
| 70007748W | | |
| (iv) | Which organisms feed on primary consumers? A Lion Hyena and Leopard B Leopard, Buffalo | and Giraffe |
| | A Bioli, 11, olia alla 200 p | st and Buffalo |
| | C IIyolia, Dolla and Marie | |
| (v) | If there is cholera outbreak in the nearby school, which way would | I you use to prevent the disease |
| | A Killing mosquitoes B Covering nose when | AMICONOMIA WY |
| | C Boiling drinking water D Eliminating rat and f | fleas |
| (vi) | Why is screening of donors' and recipients' blood samples before | transfusion important? |
| V X | A Ensuring compatibility B Preventing bleeding | |
| | C Ensuring incompatibility D Enhancing coagulate | tion |
| (vii) | Which apparatuses are used for heating substances in the Biology | laboratory? |
| () | | mp and Bunsen burner |
| | AND SOUND TO SOUND TO SOUND IN SOUND I | mp and Test tube rack |
| (calling | Why is it assessed to show for discountly hefere and leaving 2 | |
| (viii) | 9 | |
| | | |
| | B Kills harmful organisms present in the food | |
| | C Helps digestive enzymes to penetrate the food | |
| | D Breaks down small pieces of food into large | |
| (ix) | Which statement is true about the virus? | |
| | A It is active outside the host cell but dormant inside it | |
| | B It is active inside the host cell but dormant outside it | |
| | C It carries life processes when outside the host cell | |
| | D It has both DNA and RNA as genetic materials | |
| (x) | How is plague transmitted from one person to another? | |
| | A Through sexual intercourse with an infected person | |
| | B By contact with water containing parasitic larvae | |
| | C Through tsetse fly bites from infected to a healthy person | |
| | D Through rat fleas bites from infected to a healthy person | |

Student's Assessment Number

2 Match the descriptions of warning signs in **List A** with the corresponding warning sign label in **List B** by writing the letter of the correct response below the item number in a table provided.

| E lot A | List B |
|--|--|
| Substances which are dangerous and may cause death. Substances which can catch fire easily. Substances which emit harmful radiation. Substances which can damage the skin and other tissues. Substances containing microbes which can cause disease. | A Corrosive B Explosive C Toxic D Irritant E Fragile F Flammable G Biohazard H Radioactive |

| nswer | | | Z:::X | (iv) | (v) |
|-----------------|-----|------|-------|------|-----|
| nswer List A | (i) | (ii) | (iii) | () | |
| List B | | | | | |

SECTION B (70 Marks)

Answer all questions in this section.

| | | | Answer an questions in this section. |
|----|-----|---------|--|
| 3. | (a) | Identif | y the organs which are used for gaseous exchange in the following organisms: |
| | | (i) | Cow |
| | | | |
| | | (ii) | Frog |
| | | | |
| | | (iii) | Maize leaf |
| | | | |
| | | (iv) | Fish |
| | | | |
| | (b) | | cannot survive without carrying out the process of gaseous exchange. In three points, justify this |
| | | statem | ent. |
| | | (i) | |
| | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
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| | (ii) | | | STREET, STREET | |
| | (11) | | | | |
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| | (iii) | | | | , |
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| | | | | | |
| | the fall | owing apparatuses which at | e found in the Bio | ology laboratory and state the use of | feach. |
| | | | (b) | Tripod stand | |
| a) | Spat | ula | (0) | | |
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| (c) | Test | tube holder | (d) | Filter funnel | |
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| wo p | eople v | visited the hospital complain | ning of general bo | dy weakness. The doctor diagnosed | thom with |
| ckle (a) | cen an | aemia. ine six symptoms of such di | | the doctor diagnosed | mem wim |
| aj | (i) | and ayriiptoms of such di | | | |
| | (ii) | | | | ••• |
| | (11) | *********************** | Find this and other fr | ee resources at: | |

4.

5.

| | | Student's Assessment Number |
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| | (iii) | |
| | (iv) | |
| | (v) | 5.74 (2 |
| | (vi) | |
| (b) | State t | wo ways you would recommend to the patients so as to control the disorder. |
| (0) | (i) | |
| | | |
| | (ii) | |
| | | |
| (a) | Outlin | e three similarities between plant and animal cells as seen under the light microscope. |
| | (i) | |
| | (1) | |
| | (ii) | |
| | (11) | |
| | (iii) | |
| | (111) | |
| | | |
| (b) | Draw | a diagram of a plant cell as seen under the light microscope and label six parts. |
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| 7. Fo | rm Two | students classified mosses and ferns into the same Division simply because they have |
| ch | lorophyl | I for photosynthesis. ch classification system did they use? |
| (a) | | |
| | | |

| | | Student's Assessment Number |
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| 18.5 | Deiafly | explain four demerits of the classification system used in 7 (a). |
| (b) | (i) | |
| | (1) | |
| | | |
| | | |
| | (ii) | |
| | () | |
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| | (iii) | |
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| | (iv) | |
| | (11) | |
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| Forn beak (a) | er and a Using | udents entered the biology laboratory and were provided with water, a tea bag, match box, Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to |
| beak | er and a Using demon | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | er and a Using | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | er and a Using demon | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | er and a Using demon (i) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | er and a Using demon | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | er and a Using demon (i) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | ter and a Using demon (i) (ii) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | er and a Using demon (i) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | ter and a Using demon (i) (ii) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | er and a Using demon (i) (ii) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | ter and a Using demon (i) (ii) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | er and a Using demon (i) (ii) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | er and a Using demon (i) (ii) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak (a) | er and a Using demon (i) (ii) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak | er and a Using demon (i) (ii) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |
| beak (a) | er and a Using demon (i) (ii) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. points, briefly explain the importance of the named process in 8 (a) to living organisms. |
| beak (a) | er and a Using demon (i) (ii) (iii) | Bunsen burner. the materials and apparatuses given, outline four procedures they would follow to strate the process of diffusion. |

8.

| | | Student's Assessment Number |
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| | (ii) | |
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| neig | hbouring | Baraza, selected you to become the chairperson for cholera prevention campaign in the g community. Briefly explain five ways you will use to educate the community about the f the disease. |
| | cition o | |
| (i) | | |
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| (ii) | | |
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Student's Assessment Number SECTION C (15 Marks) Answer question ten (10).

| | The for training in food preservation methods. Elaborate to |
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| 0. | Self-employed women have come to Dar es Salaam for training in food preservation methods. Elaborate to them the six methods of food preservation. |
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