

Candidate's examination number.....
THE UNITED REPUBLIC OF TANZANIA



PRESIDENT'S OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT

HOME PACKAGE FORM TWO EXAMINATIONS APRIL 2020

0033

BIOLOGY

Time 2:30Hours

INSTRUCTIONS

1. This paper consists of section **A**, **B**, and **C** with a total of **eleven (11)** questions.
2. Answer **ALL** questions in section **A** and **B** and **one (1)** question from section **C**.
3. All writing must be in **blue or black ink** except diagrams which must be drawn by pencil and label by ink.
4. Mobile phones and calculators are **NOT ALLOWED** in examination room.
5. Write your **examination Number** at the top right corner of every page.

FOR EXAMINER'S USE ONLY

Number of question	Score	Examiners initials
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
TOTAL		

SECTION A (30Marks)

Answer all questions in this section.

1. For each of the items (i) – (x), choose the correct answer among the given alternatives and write its letter beside item number in the box provided.
 - i) An experiment usually tests:-
 - A. Application.
 - B. Evaluation
 - C. Hypothesis
 - D. Problem identification
 - ii) Which one is out of place about importance of First Aid?
 - A. Brings hope and encouragement to the patient
 - B. Improves the victim's life span
 - C. Reduces fear of death
 - D. Prevents shock
 - iii) Which of the following are communicable diseases?
 - A. Cancer, Gonorrhoea and Syphilis.
 - B. Cholera, Gonorrhoea and Syphilis
 - C. Cholera, Kwashiorkor and Marasmus
 - D. Cholera, Marasmus and Rickets
 - iv) In the human digestive system, a stomach is known as:-
 - A. A tissue
 - B. A cell
 - C. An organ
 - D. An organism
 - v) An organism with a rigid protective wall made up of chitin material is a representative of which kingdom?
 - A. Fungi
 - B. Monera
 - C. Plantae
 - D. Protocista

vi) Jasmine cannot see objects in a dim light. What condition is she probably suffering from?

- A. Night blindness
- B. Kwashiorkor
- C. Beriberi
- D. No carrot in her diet

vii) The natural environment includes:-

- A. predators and preys
- B. plants and animals
- C. consumers and producers
- D. living and non-living things

viii) Diffusion is:-

- A. Going from adjacent area to its gradient area
- B. Going from an area of low to high concentration
- C. Going from water to the solute
- D. Going from an area of high to low concentration

ix) Where does gaseous exchange take place in fish?

- A. Gills
- B. Lungs
- C. Trachea
- D. Skin

x) The structure of the leaf that allows oxygen and carbon dioxide to diffuse into and out of the leaf during gaseous exchange is called:-

- A. Cuticle
- B. Epidermis
- C. Stomata
- D. Mesophyll.

2. For each of the items (i) – (x), write **TRUE** if a statement is correct or **FALSE** if a statement is not correct in a space provided.

i) Dark blue color determines the presence of starch in a solution when iodine solution is added

ii) A person with a blood group AB is called Universal donor

iii) An incinerator is used to dispose hazardous wastes

iv) Examples of animal organs are the skin, eyes, roots and fruits

v) Soil and water represent abiotic factor

vi) People living with HIV/AIDS should be stigmatized

vii) Biology is the study of non-living things

viii) The largest group in the classification is phylum

ix) Transpiration is not a necessary process to plants

x) An onion stores food in leaves while carrots store food in roots

3. Match the phrase in **List A** with responses in **list B** by writing the letter of the correct response from list B below the item number of list A in a table provided.

LIST A		LIST B	
i)	Methylated spirit, Dettol and Eusol.	A.	Antibiotics
ii)	One of the components in first aid kit used to cut bandages and tapes.	B.	Antiseptics
iii)	Used for washing wounds, hands and medical facilities.	C.	Pair of tweezers
iv)	Used to reduce muscle pains.	D.	Pair of scissors
v)	used for cleaning and drying wounds and applying medicine	E.	Soap
		F.	Iodine tincture
		G.	Liniment
		H.	Panadol
		I.	Cotton wool

LIST A	i	ii	iii	iv	v
LIST B					

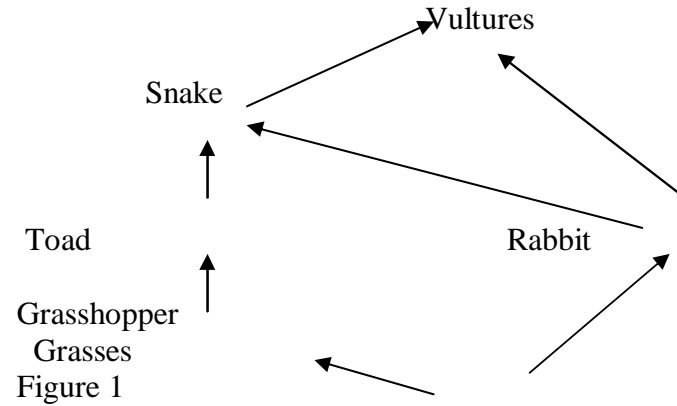
4. Complete each of the following statements by writing the correct answer in the space provided in each item number of question.
- The part of the cell which controls movement of materials in and out of the cell during life process of an organism.....
 - A cell in human being that has ability to move
 - The process by which a less specialized cell becomes a more specialized cell type for specific function
 - The green pigment in chloroplasts that gives leaves the green color is known as
 - The system that transports oxygen and nutrients in the body of living organism is called

SECTION B (50Marks)

Answer all questions in this section

5. (a) Define the following terms:-
- Gaseous exchange.
 - Respiration.
- (b) Give one(1) reason for each of the following characteristics of respiratory surface.
- Have thin walls
 - They are moist.
- (c) Compare any three (3) features of aerobic respiration and anaerobic respiration.
6. (a) Define the following terms as used in balance of nature.
- Producers
.....
.....
 - Consumers
.....
.....
 - Decomposers
.....
.....

- (b) Study the following food web (in figure 1) then answer the questions that follow:-



What would happen if:-

- All the snakes were killed in figure 1 above?
 - The number of toads multiplied?
7. The figure 2. Below represents a section through a mammalian heart. Study the diagram then answer the questions that follow.

