Candidate Examination Number .....

PRESIDENT'S OFFICE

REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT AUTHORITY

MBEYA DISTRICT COUNCIL

FORM TWO MOCK ASSESSMENT

033

BIOLOGY

Time: 2: 30 Hours

August 2019

Instructions

1. This paper consists of section **A, B** and **C**.
2. Answer **all** questions in section **A** and **B** and **one (1)** question from section **C.**
3. Except for diagrams that must be drawn in pencil, all writings should be in blue or black pen.
4. Answers must be written in the space provided.
5. Calculators and cellular phone are not allowed in Examination room
6. Write your **Examination Number** at the top right corner of every page

FOR EXAMINER'S USE ONLY		
Question Number	Scores	Examiner's Initials
1.		
2.		
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11 Total		

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SECTION A (30 MARKS)

1. For each of the items **(i) - (x),** choose the correct answer among the given alternatives and write its letter in the box provided.

(i) A biologist discovered a new cell in culture, new cell has a distinct cell wall but did not have a definite nucleus. The cell is mostly likely to be:

A. Protozoa
B. Bacterium
C. Plant
D. Virus.

(ii) The main product of photosynthesis is transported away from the leaves by the:

A. Cambium
B. Cortex
C. Phloem
D. Xylem.

(iii) Which of the following is a reason of studying biology:

A. Biology deals with non – living objects in our environment
B. Biology enable us to pollute our environment
C. Biology help us to appreciate and improve nature
D. Biology enable us to know more biology books.

(iv) Oxygen passing from the atmosphere into the blood of a mammal takes one of the following roots:

A. Bronchi – Bronchioles – Trachea – Alveoli
B. Trachea – Bronchioles – Bronchi – Alveoli
C. Trachea – Bronchi – Bronchioles – Alveoli
D. Bronchioles – Bronchi – Trachea – Alveoli.

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(v) The site of protein digestion in the digestive system is the:

A. Mouth
B. Pancreas
C. Stomach
D. Liver.

(vi) Anna has a problem of seeing well at dim light (Night blindness). She is lacking:

A. Vitamin C
B. Vitamin A
C. Fruits
D. Vegetable.

(vii) A person with blood group B has antibody:

A. Antibody a
B. Antibody b
C. Antibody a and b
D. None.

(viii) The whole process of taking in food, digesting it to provide energy for living and material for growth is known as:

A. Catabolism
B. Metabolism
C. Nutrition
D. Respiration.

(ix) Which of the following organelles is not common to plants and animal cells?

A. Plasma membrane
B. Mitochondria
C. Chloroplast
D. Nucleus.

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(x) Medical waste are described as:

A. Biohazard
B. Biodegradable
C. Recyclable
D. Reusable materials

2. In each of the following statements, write **TRUE** if a statement is correct or **FALSE** if a statement is not correct

(i) Green plants are decomposers .....
(ii) One enzyme can act only on one food substance.....
(iii) All bacteria are useful to man .....
(iv) Pepsin is an enzyme which acts on protein.....
(v) A tissue is a smallest unit of life.....
(vi) Lack of lipids in the diet cause constipation.....
(vii) Valves in the lungs prevents the back flow of blood.....
(viii) Oxygen is a raw material for photosynthesis.....
(ix) Heartburn is a disorder of digestive system.....
(x) Beriberi, gonorrhea and syphilis are diseases caused by bacteria.....

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3. Match the phase in List A with response in List B by writing the correct letter of the response in List B below the item number of List A in the table provided.

	LIST A	LIST B
(i)	The possible longest cell in the body	A. Phloem
(ii)	The plant organs that absorb dissolved minerals , nutrients from the soil and hold the plant firmly	B. Nucleus C. Vacuole D. Erythrocyte
(iii)	The cell without nucleus	E. Nerve cell
(iv)	Control all activities of a cell	F. Root hair
(v)	The site for most chemical reactions of a cell	G. Tonoplast H. Cytoplasm

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.
   (i) The wave like motion of food in the oesophagus caused by muscular contraction.....
   (ii) Prevent entry of food into the respiratory system .....
   .....
   (iii) Absorption of water in the digestive system takes place in part called.....
   (iv) The break down of fat into tiny droplets is called
   .....
   (v) The enzyme secreted by pancreas are pancreatic Lipase, Pancreatic amylase and .....

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SECTION B (50 MARKS)

Answer all questions

5. (a) Define the following terms

(i) First Aid.....

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(ii) Accident.....

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(b) Outline four unique things that make the biology Laboratory different from other laboratories.

(i) .....

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(ii) .....

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(iii) .....

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(iv) .....

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(c) Mention two components of first aid kit and their uses.

(i) .....

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(ii) .....

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6. (a) Define the following terms.

(i) Trophic level.....
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(ii) Commensalism.....
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(iii) Ecosystem.....
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(b) Explain three importances of natural environment

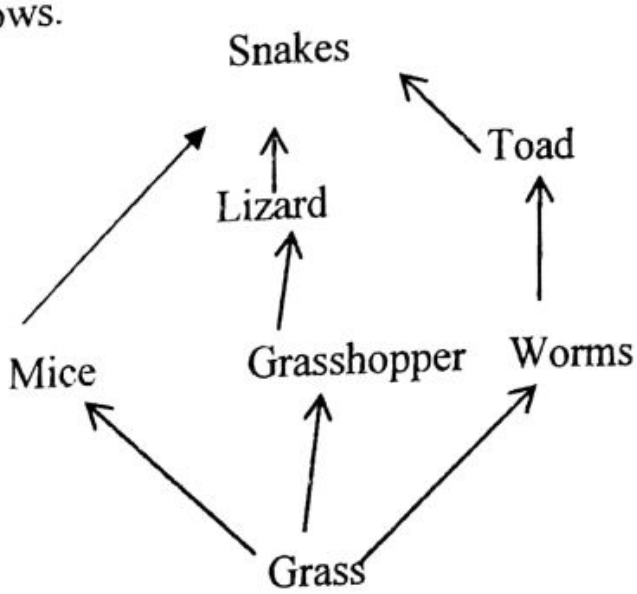
(i) .....
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(ii) .....
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(iii).....
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(c) Study the patterns below and answer the questions that follows.



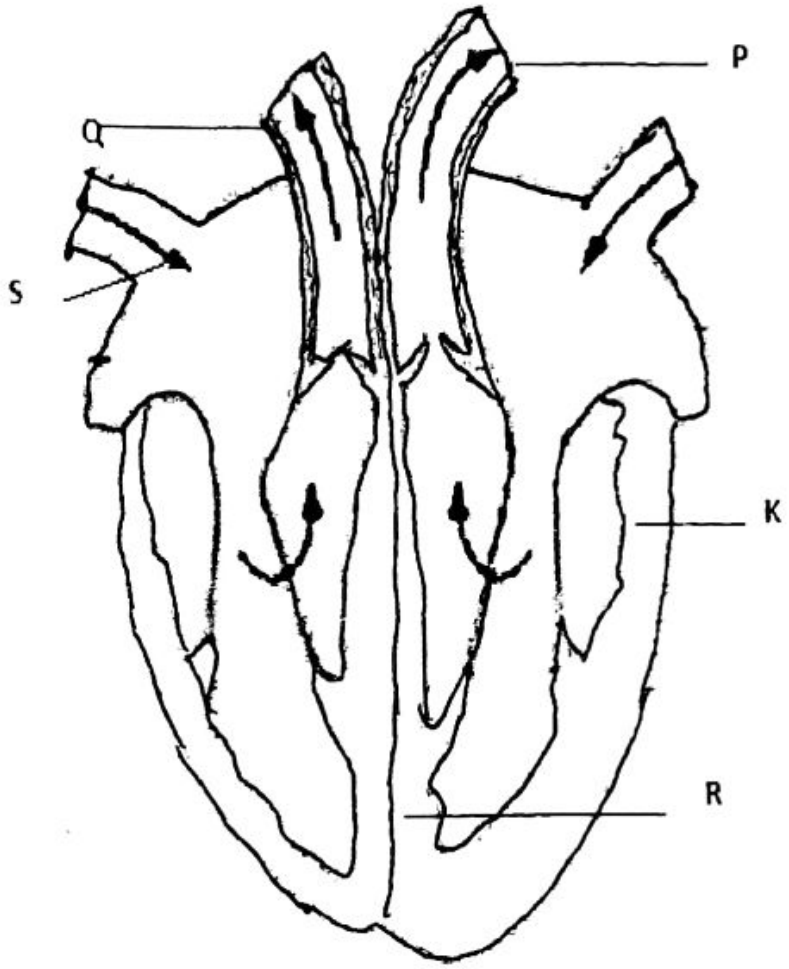
(i) The patterns above represent?.....
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(ii) Mention organisms which are secondary consumer
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(iii) What would happen when grass removed from the patterns above.
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7. Figure 1 represent mammalian heart, study carefully then answer the questions that follow



(a) Name the parts labeled with letters

Q .....

P.....

K.....

R.....

S.....

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(b) State the function of the parts labeled by letter.

R.....

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P.....

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Q.....

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(c) Explain why left ventricle is more muscular than the right ventricle.

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8. (a) Define the term respiration

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(b) Give four differences between photosynthesis and respiration

	Photosynthesis	Respiration
(i)		
(ii)		
(iii)		
(iv)		

(c) Define the term breathing.....
.....
.....
.....

(d) Name the structure used for gaseous exchange in the following organisms.

Organism	Structure used for gaseous exchange
(i) Rat	
(ii) Insects	
(iii) Spider	
(iv) Earthworm	

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9. (a) State the structure used for locomotion by the following Organisms.

S/N	Organism	Locomotory structure
(i)	Euglena	
(ii)	Amoeba	
(iii)	Trypanosoma	
(iv)	Paramecium	

(b) Give three principle of personal hygiene and good manner

(i) .....
(ii) .....
(iii) .....

(c) State three adaptation of leaf for photosynthesis

(i) .....
(ii) .....
(iii) .....

SECTION C (20 MARKS)

Answer **one (01)** question from this section

10. Write an essay on Typhoid using the following guidelines
    (a) Meaning
    (b) Causes
    (c) Transmission
    (d) Signs and symptoms
    (e) Effects
    (f) Prevention and control.

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11. Write an essay on waste disposal basing on the following guidelines
    (a) Meaning
    (b) Principles of waste disposal
    (c) Effects of poor waste disposal

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