

PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
GEITA ADVENTIST SECONDARY SCHOOL
FORM TWO HOLLIDAY PACKAGE 27TH APRIL 2020

BIOLOGY

Answer all questions in your excise book

1. For each of the items (i)-(x), choose the most correct answer from among the given alternatives and write its letter beside the item number.
 - i. The following are representative members of the kingdom fungi except.
 - a) Mushroom
 - b) Mucor ()
 - c) Yeast
 - d) Amoeba
 - ii. Which parts of the alimentary canal are responsible for the absorption of water?
 - a) Colon
 - b) Ileum ()
 - c) Duodenum
 - d) Rectum
 - iii. The species of an organisms with similar characteristic features are called
 - a) Homology
 - b) Analogy
 - c) Homologous structure ()
 - d) Analogous structure
 - iv. The following are the diseases caused by bacteria except.
 - a) Gonorrhoea, malaria, cancer and bilharziasis
 - b) Syphilis, polio, measles and tuberculosis
 - c) Cholera, gonorrhea, typhoid and tuberculosis(
 - d) Chlamydia, cholera, syphilis and AIDS

- v. Oxygen passing from the atmosphere into the blood of a mammal takes one of the following routes

- a) Nasal cavity \Rightarrow larynx \Rightarrow bronchi \Rightarrow \Rightarrow
 bronchioles \Rightarrow alveolus \Rightarrow .lungs
 trachea
- b) Nasal cavity \Rightarrow \Rightarrow larynx \Rightarrow \Rightarrow
 trachea \Rightarrow bronchi \Rightarrow bronchioles \Rightarrow lungs
 alveolus ()
- c) Nasal cavity \Rightarrow ~~bronchi~~ ~~bronchioles~~ \Rightarrow
 trachea ~~larynx~~ \Rightarrow lungs alveolus
- d) Mouth cavity \Rightarrow ~~trachea~~ ~~bronchioles~~ \Rightarrow
 bronchi \Rightarrow lungs alveolus.

- vi. _____ is the process by which one organism captures, kills and feeds on other organisms

- a) Predator
 b) Interaction ()
 c) Predation
 d) Competition

- vii. Form two students from Kijiweni Secondary School organized a study project in one of their surrounding village based on feeding matter in balanced diet. In the village, students met most children with protruding stomach, yellowish soft hair, swelling of the lower parts of the limb and had poor feeding practice. What do you think would be the source of the problem?

- a) Lack of balanced diet
 b) Lack of hospital or dispensary ()
 c) Lack of taking in sufficient protein food substances
 d) Ignorance of the villagers

- viii. The assigned two scientific name to an organism is referred to as;

- a) Nomenclature
 b) Classification ()
 c) Taxonomist
 d) Binomial nomenclature

- ix. Which of the following vessels absorbs water and mineral salts from the soil to the plant?

- a) Phloem vessels
 - b) Parenchyma tissues ()
 - c) Cambium cell
 - d) Xylem vessels
- x. One of the following is not a function of blood.
- a) Secretion of hormones
 - b) Transport of gases to and from the tissues ()
 - c) Natural healing of wounds
 - d) Regulation of body temperature

2. Match the response in list A with the word or phrase in list B by writing the letter of the correct response beside the item number

LIST A	LIST B
I Mitochondria	A. Manufacture food materials in green plants
II Chloroplasts	B. Controls the cell activities
III Respiration	C. The site for cellular respiration
IV Photolysis	D. The breakdown of food substances to release energy
V Nucleus	E. The breakdown of water molecules into hydrogen ion and oxygen

List A	I	II	III	IV	V
List B					

3. Complete the following statement by writing an appropriate response

- a) _____ is pathogenic invasions that cause the subsequent lowering of body immunity.
- b) _____ is organisms that carry and transmit pathogens.
- c) A sudden violent disturbance of mind/emotion is called _____
- d) The sudden fall of blood pressure as a result of inadequate blood supply to the brain is called _____

- e) _____ are any interference with the normal functioning of the body.

4. For each of the following statements write “T” for correct statement and “F” for incorrect statement.

- I. Magnesium and iron results into chlorophyll formation _____
- II. An opening through which air enters into the larynx is called the glottis _____
- III. The biological catalyst which speed up the rate of biological processes in the body are called hormones _____
- IV. The separation of bones at a joint is called bone dislocation _____
- V. Safety are any precaution that protects a person against accidents or injury _____
- VI. A delicate and expensive instrument in the biology laboratory which are capable of magnifying small object to be seen clear is called a lens _____
- VII. The body reaction against antigens are called allergy _____
- VIII. The nutritional deficiency of ascorbic acid result into scurvy _____
- IX. First aid kit is temporary and an immediate help given to a victim before taking him/her to hospital _____
- X. The time interval between the invasion of the pathogens and the symptoms to occur is called incubation period _____

5. a) Give the meaning of the following

- i Digestion
- ii Absorption
- iii Assimilation
- iv Emulsification

b) Give any three adaptation of the Ileum for its absorption.

c) Give any three differences between ruminant and non- ruminant digestive system.

6. a) . Define the following terminologies

- i Oxygen dept
- ii Gaseous exchange

- b) Give any three differences between inspiration and expiration
- c) Give any three differences between aerobic respiration and anaerobic respiration
- d) Name the structures used for gaseous exchange by the following organism

Name of an organism	Structure for gaseous exchange
I. Reptiles	
II. Fish	
III. grasshopper	
IV. spider	

7. a) what is

- i. Trophic level
- ii. Natural environment

b) With one example per each, name the components of the natural environment

c) Give any two importance of the natural environment.

d) You have been provided with the following organisms;

Zebra, Hyena, Antelope, Hawk, Bacteria, Shrubs, Giraffes, Grass, Lion.

- i. Construct the food web from the given organisms above.
- ii. In which trophic level is bacteria placed?

iii. Give the role of the bacteria in respective to its trophic level in d (i) above.

8. Explain the following biological facts

a) It's possible to swallow the food with down ward head.

- b) Respiratory surfaces are always moist
 - c) Burning is not a proper method for waste disposal
 - d) Breathing rate increases when one is running
 - e) Breathing rate does not go to normal as soon after exercising
9. Give any two biological functions from each of the following;
- a) Bile
 - b) Saliva
 - d) Hydrochloric acid in the stomach
- 10.a) Define
- i. Biology
 - ii. A cell
- b) List two types of cell
- c)
- i. What is waste disposal_____
 - ii. List four proper method of waste disposal
11. Write an essay on malaria by using the following guidelines.
- Meaning of malaria
 - Causes
 - Transmission
 - Symptoms
 - Effects
 - Preventive measures.
12. Write an essay on body immunity by using the following guidelines;
- Meaning of body immunity
 - Types of body immunity
 - Importance of body immunity
 - Factors affecting body immunity.