

**PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
DODOMA REGION
FORM TWO MOCK EXAMINATION MAY 2021
BIOLOGY**

CODE: 033

TIME:2:30 HOUR

INSTRUCTIONS

1. This paper consists of sections A,B, and C
2. Answer all questions in section A and B and ONLY one question from section C
3. Write your index number on every page of this sheet on the space provided
4. All writing should be in blue or black pen, except for drawings which should be in pencil

SECTION "A" (30 Marks)

1. Choose the letter of the most correct answer among the given alternatives and write its letter in the box provided
 - (i). In a microscope, if the eyepiece reads X 10 and the objective lens reads x40. The total magnification is ;
(A) 400 times (B) 10 times (C) 40 times (D) 100 times
 - (ii).An animal cell differ from plant cell in that;
(A) Has no nucleus (B) Has no cell wall (C) Has no cytoplasm (D) Has chloroplast
 - (iii). Unexpected event resulting from carelessness, unawareness and ignorance is
(A) Bad luck (B) Electric shock (C) Safety (D) Accident
 - (iv). Which of the following organisms matches correctly with the disease it causes
(A) Trypanasomiasis- typhoid (B) Mosquito – Malaria (C) Schistosomes- sleeping sickness
(D) Plasmodium – malaria
 - (v). the best evidence that two organisms belong to the same species is that;
(A) Can breed with other organisms which are not of their kind
(B) Live in the same habitat and have similar ways of nutrients
(C) Produce fertile offspring when interbreed;
(D)They are similar in appearance
 - (vi).Absorption of food takes place in the ;
(A) Stomach (B) Liver (C) Small intestine (D) Large instestine
 - (vii) First Aid is referred to as;
(A) Emergency care given to patient after medical treatment
(B) A small box in which medical facilities are stored
(C) An immediate care given to a patient before doctors help
(D) All that can do healthy people before doctor assistance

(viii) _____ is used to describe the people's body ability to resist diseases

(A) Health (B) Hygiene (C) Good manner (D) Immunity. ☐

(ix). An artery carries blood

(A) Toward the heart (B) Away from the heart (C) Away from the lungs (D) Toward the lungs ☐

(x). The blood group 'O' is called universal donor because;

(A) Has antibody A (B) Has antibody B (C) Receives blood from all groups (D) Donates blood to all groups ☐

2. For each items (i) __ (x) write TRUE if the statement correct and FALSE if the statement is not correct

(i). Artificial classification is based on few observable features.....

(ii). Air, water, and soil are examples of abiotic components of the environment.....

(iii). Fermentation is a form of aerobic respiration in plants.....

(iv). Lack of roughage in diet cause constipation.....

(v) Some laboratory accidents can be avoided by reading warning signs on the chemical containers

(vi). A good mannered person will always great others.....

(vii). All bacteria are harmful.....

(viii). Air sacs for gaseous exchange in mammals is alveoli.....

(ix). Obesity is the form of Nutritional disorders.....

(x). Peptides are end products of proteins.....

3. Match the items in list A with that in List B given below;

LIST 'A'	LIST 'B'
i. A device for accurate observation of microorganism in the laboratory	A. Microphone
ii. An organic substance that speeds up metabolic activities.....	B. Microscope
iii. Ability of the body to resist a particular infection.....	C. Enzymes
iv. Result from lack of vitamin 'C'	D. Plague
v. Classification based on few observable characteristics.....	E. Immunity
vi. Obtain their nutrients from dead and rotten organic matter.....	F. Vaccination
vii. Non living part of an ecosystem.....	G. Bile
viii. Site for photosynthesis.....	H. Scurvy
	I. Goiter
	J. Natural classification
	K. Artificial classification
	L. Saprophytes
	M. Parasites
	N. Biotic part
	O. Abiotic part
	P. Chloroplast
	Q. Tongue

ix. Rolls food into bolus.....	R. Teeth.
x. Green yellow juice secreted by the liver.....	

SECTION 'B'

- 4.(a) Define the term biology and biologist
 - (b) Mention major branches of biology
 - (C) Briefly explain how biology is related to the following field
 - (i) Agriculture
 - (ii) Medicine.
- 5.(a) Give the distinctive features of the division filicinophyta
 - (b) Draw a well labelled diagram of fern plant.
- 6.(a) Give three reasons why photosynthesis is important.
 - (b) Give four factors which affect the rate of photosynthesis
7. (a) What do you understand about the following terms
 - (i) Cell
 - (ii).Zoology
 - (iii). First Aid
 - (b). State the uses of each of the components of the first Aid kit
 - (i) Liniment.
 - (ii) Pair killer
 - (iii). Cotton wool
 - (iv) Sterile gauze
 - (c) Distinguish between unicellular organisms from multicellular organism giving one example in each case
8. (a) Define natural environment as used in biology
 - (b) Mention six components of the food chain and food web
 - (c) (i). Give one example of abiotic component of the environment
 - (ii). Give one example of biotic component of the environment
9. (a). What do you understand by the term puberty?
 - (b) Mention four requirements of personal hygiene and good manners.
 - (c) State two ways of maintaining personal hygiene and good manners.

SECTION 'C'

Answer one (1) question from this section

- 10.(a) Define the term food preservation
 - (b) Discuss how food can be preserved using any three traditional method and any three modern methods
11. Write an essay on cholera using the following outline
 - (i) Causative agent

- (ii) Mode of transmission
- (iii) Symptoms of the disease.