



TANZANIA HEADS OF ISLAMIC SCHOOLS COUNCIL
FORM TWO INTER ISLAMIC MOCK EXAMINATION

BIOLOGY

033

TIME: 2:30 HOURS

Wednesday, 24th July 2024 a.m.

Instructions

1. This paper consists of sections A, B and C with a total of ten (10) questions.
2. Answer all questions in each section.
3. All writings must be in blue or black ink except drawings which must be in pencil.
4. Cellular phones and any unauthorized materials are not allowed in the examination room.
5. Write your **Examination Number** at the top right corner of every page.

FOR EXAMINERS' USE ONLY		
QUESTION NUMBER	SCORE	EXAMINER'S INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
TOTAL		
CHECKER'S INITIAL		

SECTION A (15 Marks)

Answer **all** questions in this section

1. For each of the items (i) – (x), choose the correct answer from among the given alternatives and write its letter in the box provided.
- (i) Mbumba went to keep his cattle in the forest whereby he observed an organism with cell wall made up of Chitin. As a recent taxonomist, in which taxa would you group such organism?
- A. Kingdom plantae
B. Kingdom Fungi
C. Kingdom Protocista
D. Kingdom Monera
- (ii) A Process in which plants and green algae use simple inorganic substances to produce glucose is called _____
- A. Hydrolysis
B. Photolysis
C. Photosynthesis
D. Plasmolysis
- (iii) A mother refuses to breast feed her baby. What type of immunity will that baby miss?
- A. Natural passive Immunity
B. Natural active Immunity
C. Artificial passive immunity
D. Artificial active immunity
- (iv) A form one student went to hospital laboratory for the check-up whereby he was diagnosed with the sleeping sickness. Suggest the possible vector of such disease.
- A. Tsetse fly
B. Mosquitoes
C. Butterfly
D. Housefly
- (v) Assume you have been assigned by school manager to cross-section cutting down the mango stem. Recommend on the arrangement of vascular bundle.
- A. Random pattern
B. Scattered pattern
C. Ring pattern
D. Peripheral pattern
- (vi) Mr. Tondwa being a street vendor, got an accident that caused bleeding through the cuts when he tried to slash the long grasses around Mr. Ally's house. As Mr. Ally what would you do to help before taking him to the hospital?
- A. Lay Mr. Tondwa or his back while legs rise
B. Dress Mr. Tondwa's wound and bandage it firmly
C. Give Mr. Tondwa a lot of fruit juice to restore mineral lost
D. Induce vomiting to Mr. Tondwa

- (vii) A term that describes the position that an organism occupies in a food chain due to their feeding habit is called _____
- A. Ecosystem
B. Food web
C. Trophic level
D. Food chain

- (viii) Euglena is normally mislead as a member of Plantae kingdom which is not true because plants are not locomoting. Based on this statement what feature of euglena will you use to separate them from plants?
- A. Flagellum
B. Pseudopodia
C. Cilia
D. Legs

- (ix) When form two students poured Iodine solution into the test tube containing a food sample X it turned blue-black. Comment on the colour change.
- A. The test tube contains glucose
B. The test tube contains lipid
C. The test tube contains protein
D. The test tube contains starch

- (x) Recommend the biological term that explains the substance which poses the threat to the health of living organism as a causing agent of disease and infection.
- A. Fragile
B. Biohazard
C. Corrosive
D. Flammable

2. Match the descriptions of diseases and infections in LIST A with the corresponding terms in LIST B by writing the letter of the correct responses beside the item number.

LIST A		LIST B	
(i)	Disease that affects a wide geographical area	A.	Vaccination
(ii)	The inversion of the body by disease-causing microorganism	B.	Infection
(iii)	A way of inducing resistance against an antigen	C.	Pandemic
(iv)	Condition that affects health of the body and characterized by a certain symptom	D.	Disease
(v)	A microorganism that can affect health if gets into the body	E.	Endemic
		F.	Pathogen
		G.	Passive immunity
		H.	Communicable disease

LIST A	(i)	(ii)	(iii)	(iv)	(v)
LIST B					

SECTION B (70 Marks)

Answer **all** questions in this section

3. Recent environmentalist publications and reports condemn on the Serious environmental pollution resulted from poor waste disposal.

(a) If you could be assigned to educate people on how condemned issue can keep them unsafe, use four points to do so.

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

(b) "Dispose waste properly to avoid environmental pollution." Use three main principles to support this statement.

- (i) _____

- (ii) _____

- (iii) _____

4. While performing surgery on mammal, two blood vessels were cut mistakenly whereby in one of the vessels blood flows out with high pressure while in the other vessels blood flow out with low pressure.

(a) As a recent medical doctor suggest names of the two blood vessels

- (i) _____
- (ii) _____

(b) Assess four differences between vessels mentioned in (a) above

(i)		
(ii)		
(iii)		
(iv)		

5. Briefly explain how the following processes are involved in carbon cycle.

- (i) Respiration _____

- (ii) Combustion _____

- (iii) Fossilization _____

- (iv) Photosynthesis _____

- (v) Decomposition _____

6. 2cm³ of a food sample solution Q changed to purple colouration when 1cm³ of sodium hydroxide were added on it followed by 2-3 drops of copper II sulphate solution.

(a) Identify the food substance present in the solution Q _____

(b) State any two enzymes responsible for digestion of food substance Q and their respective products.

(i) _____

(ii) _____

(c) Give five roles of food substance contained in the solution Q.

(i) _____

(ii) _____

(iii) _____

(iv) _____

(v) _____

7. On the way to Morogoro Chaupele observed road accident that caused injuries to some passengers, when asking himself about what to do to help the victims he found the small box with read-cross on its top in vehicle.

(a) Suggest and explain the term used to name the box

(b) Explain four (4) items from the box that would be used by Chaupele to assist the victims

(i) _____

(ii) _____

(iii) _____

(iv) _____

8. (a) Classifying organisms is among of key areas in studying biology. Use the knowledge of biology classification you have to complete the following table:

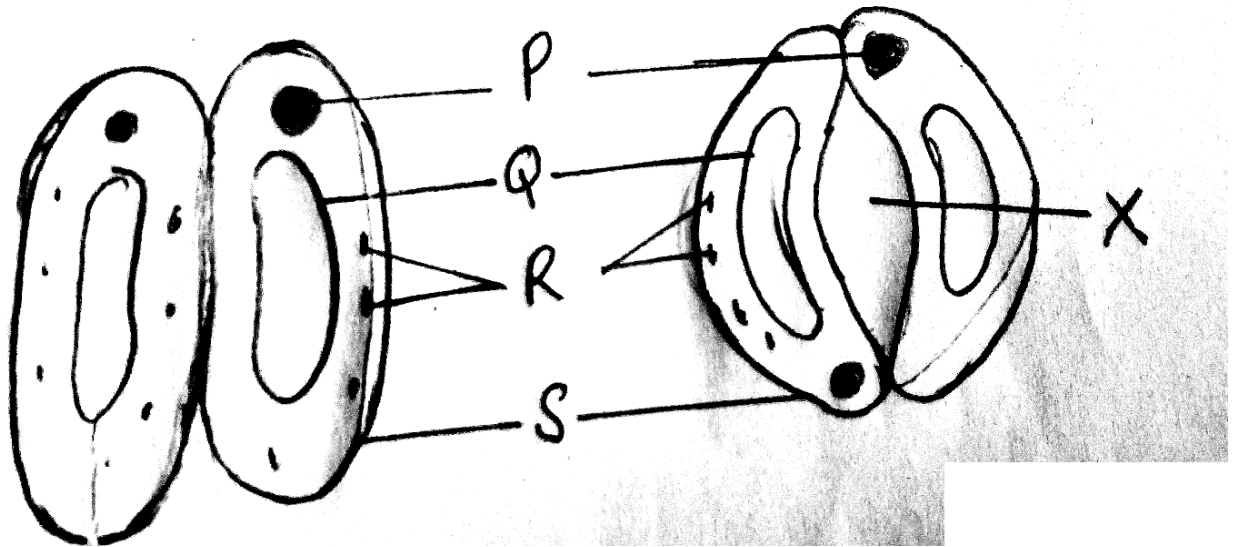
	ORGANISM	KINGDOM	PHYLUM
(i)	Common mould		
(ii)	Moss plant		
(iii)	Paramecium		
(iv)	Mushroom		
(v)	Fern plant		
(vi)	Yeast		

8. (b) "Plantae and fungi are not identical groups of organisms." Give two reasons to support this fact.

(i) _____

(ii) _____

9. Observe the figure 01 below and attempt the questions that follow:



(a) Name the structure represented by figure 01 above and its specific role in plant body.

(b) Name the parts labelled P, Q, R and S and state role played by each part.

PART	ROLE
P.	
Q.	
R.	
S.	

(c) How is plant's body benefited from the process carried out by figure 01? (Give three (3) facts)

(i) _____

(ii) _____

(iii) _____

