Student's Name: Stream: Stream:

What do you want to be after school.....

Class Stream S. 1

(Write your Name, Class Stream and School in the spaces provided.)

553/1 BIOLOGY (Theory) Paper 1 November 2022 2 hours



EDUCAN EXAMINATIONS BOARD

Uganda Lower Secondary Certificate of Education. (U.L.S.C.E)

S.1 END OF YEAR ASSESSMENT EXAMINATIONS BIOLOGY

(THEORY)

Paper 1 2 Hours

INSTRUCTIONS

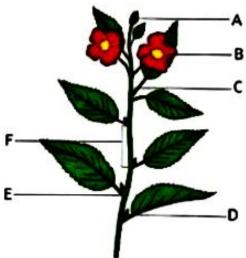
- This paper consists of two sections A and B
- Answer all questions in section A in the spaces provided.
- · Attempt any two questions in section B, in the answer booklet provided
- Illustrations in form of drawings should be made where necessary, with a sharp pencil.
- Drawings where necessary should be neatly made using sharp HB pencil

For Examiner's use only								
Question	Qn.1	Qn.2	Qn.3	Qn.4	Qn.5	Qn.6	Qn	Qn
Score:								6.



SECTION A (60 marks)

Plants are everywhere in our compounds, serving different roles in our life. They are so
important to an extent that our life would almost not be possible without them. The figure
below shows a diagram of a flowering plant. Study it carefully and answer the questions
appropriately.



(a) Name the parts of the plant labelled; A to F. write your answers in the table below;

(06 marks)

A	В	С	D	E	F

(b)	There has been worldwide sensitization of masses about the conservation of plants					
	especially trees, to ensure our environment remains a good place to live in. using your knowledge about plants, clearly describe for reasons why it is such important for us to					
	ensure plants in our environment are conserved. (04 marks)					

2. In November 2022, the gov	ernment of Uganda is	sued a circular to all Head teachers	in primary
and secondary schools, ins	tructing them to ensur	re early closure of schools before th	ne
stipulated date in the educa	ation Calendar. This w	vas due to outbreak of Hemorrhagi	c fever
caused by Ebola virus in t	he districts of Kasand	a and Mubende, that had begun spi	reading to
different parts of the count	ry. Figure below show	vs how Ebola virus looks like.	
Nucleocape (NP and NP.	(Glycopenein (GP) soRNA genome d G) Polymenae (L)	(a) Suggest one way how the Ebola differs from an animal cell. (01	mark)
•••			•••••
(b) (i) Explain why it was in	portant for the govern	ment to direct early closure of school	ols.
			(02 marks)
(ii) State any three signs and	symptoms of Hemorr	hagic fever caused by Ebola virus.	(03 marks)
		•••••	******

(c) State four other ways how	w the spread of Ebola	virus can be prevented in our commi	unity. (04 marks)
		•••••	•••••
			•••••
		•••••	

For an organism to maintain its life, it must carry out some activities. These activities are basic and essential for its continued existence. The picture below shows life processes being carried out by different organisms.



(a) With evidence from the picture, identify any three different life processes being carried out.
Write your answers in the table below.
(06 marks)

Life process	Evidence from the picture
+	

(b) Both plants and animals carry out life processes to sustain their continuity. They are however carried out differently both the plants and animals. How are life processes carried out differently in plants and in animals? (04 marks)

Life process	How it is carried out in animals	How it is carried out in plants
	2	
		£

4.	secondary functions.	n the shoot system, that carry out l	both primary and
	(a) Identify any two primary functi	ions of leaves to plants.	(02 marks)

	•••••••••••		
	***************************************	••••••	
	(b) Leaves can also be modified to	perform secondary functions, and	these are called
	modified leaves. Below are son	ne examples of modified leaves. S	tudy them carefully and
	answer questions that follow;		
	A (i) Identify the secondary fun	B action performed by each of the lead way how the leaf is adapted to performed	orm the function.
Leaf	Secondary function	Adaptati	(06 marks)
A			

Leaj	Secondary junction	Auaptation
A		
В		
С		

	monocotyledono	us plants.	(02 marks)

5. (a) Match	each structure to t	he level of organisation in the body.	(04 marks)
	System Cell Organ Tissue		
(b) Identify the bactivities;	ody system(s) tha	t work together when the person is car	rying out the following (06 marks)
Activity		Body system(s) involv	ed
Dancing			
Playing foot ball			

(ii) Outline any two differences between leaves of dicotyledonous plants and those of

Reading novel

Senior one students of EDUCAN SCHOOL, collected some specimens, A and B around the school during their Biology lesson. They are shown in the pictures below;

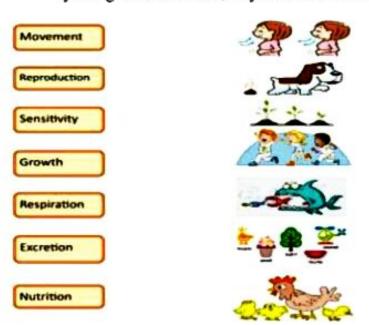


(a)	With	reasons, identify the phylum of specimens A and B.	(02 marks)
	Phy	lum:	
	Rea	son:	
(b)		of the specimens is a vector, that spreads Vibrio cholerae bacteriera to man.	ia, that causes
	(i)	Identify which specimen is the vector.	(01 mark)
	(ii)	Identify four ways how the specimen is adapted to spreading dis	sease germs.
			(04 marks)
		[
		······	
	(iii)	Suggest three possible ways you can reduced the spread of chole	era at your school.
			(03 marks)

SECTION B (20 marks)

Attempt any two questions from this section

7. Mr. Bagoole Daniel, a teacher of Biology has introduced Biology as a subject to you in his very first lesson and many learners have developed a lot of interest in the subject. He begun by talking about living things in the environment, and some of the features that are possessed by things that have life, as you talk a walk around the school compound.

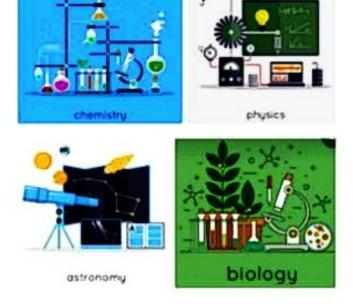


Task

Maria, a fellow classmate did not understand very well the features that really make up life but she already understands some examples of living things.

Write a simple essay explaining to Maria what exactly life processes are and how they are carried out by different animals. (10 marks)

8. In primary Education, you were introduced to what science is, as the study of living and non-living things. In Secondary education, we have expounded science and looked at it in a broader perspective; and looked at divisions of science among which included Biology, Chemistry, Physics and astronomy. Your school is organizing a science symposium and you have been chosen by your class teacher to make a presentation to the rest of the students in the school auditorium.



Task

Using the knowledge, you have so far acquired about science, write a speech you would give as part of your presentation to clearly show how the different branches of science relate to one another.

(10 marks)

9. Abigail and her mother attended a health campaign organised by EDUCAN at Katosi landing site, in Mukono district with a theme; "Healthy living". It involved HIV blood testing and a message about viral diseases affecting the community living at the landing site, especially the fishermen that usually come from the islands of Koome and Lwaajje. To raise awareness and fight further spread of the diseases among the locals, the EDUCAN team organised a competition which involved making posters about viral diseases.







Task

Using your knowledge and understanding of viruses, help Abigail to design a poster she can submit in order to help raise awareness about viral diseases in the community living at the landing site.

(10 marks)



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END