School:	Class	Stream
	S. 2	
(Write your Name, Class Stream and School in the spaces provided.)		
FF2/1		
553/1		
BIOLOGY		
BIOLOGY		
BIOLOGY (Theory)		

EDUCAN ONLINE SCHOOL

Educan

Uganda Certificate Of Education

S.2 COMPETENCE BASED ASSESSMENT EXAMINATIONS BIOLOGY

(THEORY)

Paper 1 2 Hours

INSTRUCTIONS:

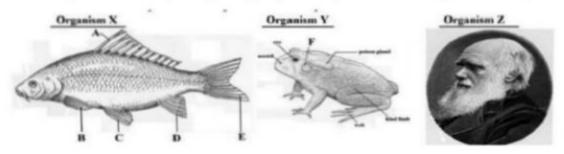
- This paper consists of two sections A and B. Answer ALL questions in section A and any
 one question from section B
- Answer all questions in section A in the spaces provided.
- Illustrations in form of drawings should be made where necessary, with a sharp pencil.

For official use only

Score	Teacher's comment
	Score

SECTION A

1. The following are living organisms that were collected from the environment. They have been labeled as organism X, organism Y and organism Z; but these are not their real taxonomic names. Study them carefully and give appropriate responses to some questions that will follow.



a) Name the parts labelled A – F. A.	(03 marks)
	D
E	. F
qualify them to be called animals.	nimals. Outline any two observable features that may (02 marks)
c) Observe organisms X and Y, state any three diff Write your answers in the table below;	fferences in structure between the two organisms. (03 marks)
Organism X	Organism Y
d) Organism X spends the whole of its life in water enable it to live in water. Identify any two of such	er. However, this organism has some features that

	comes dry just shortly aft d to dry up due to this ver		•
(a) With a reason, suggest whi soil in the area.			(01 mark)
b) State any other two propert			(02 marks)
(c) What other challenges are t	the crops most likely to fa	ice apart from lack of en	ough water? (02 marks)
(d) How can Mr. Mukundane i		,500 - 1	(03 marks)
Below are some of the phopark in Uganda. Study the	otos of some organisms th em carefully and answer t		
	2.	5	-
Eagle	Crested Crane	Cork	Ostrich
2000 ANN ANN ANN	according to the following	50 85% W	(03 marks)
(ii) Phylum:		,	

2. Mr. Mukundane, a typical farmer from Kabaale district has bought a new piece of land to expand his farm. He has however made some strange observations in the new area that

(iii) Class.:			
		e photos, state any two reasons for the cla	
3			
(c) State any two adaptations o	of the orga	nisms to their way of life.	(02 marks)
(d) Of what national importance	e is the ci	rested crane to Uganda?	(03 marks)
4. In 2019, a global pandemic b	roke up a	and affected almost every country in the	world.
There were lots of deaths acr	oss the w	vorld, and prolonged lock downs that eve	en caused
		ease was caused by a strange virus that s	
later isolated as having the st			
. 9.9.			N 861
2500	(a)	Write down the name of the virus shown	
		diagram.	(01 mark)
Hoo oo h			
Baa o o o to	(b)	Name the disease caused by the above pa	thogen.
25 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			(01 mark)
agal sales			
c) State two ways in which the ab	ove patho	ogen can be spread from one individual to	another.
massassassassas editor e e ee ee		1700 - 1800 - 1800 - 1800 - 1800 - 1800 - 1800 - 1800 - 1800 - 1800 - 1800 - 1800 - 1800 - 1800 - 1800 - 1800 -	(02 marks)

(a)	Give three signs and symptoms of the disease caused by the above virus.	(03 marks)
(b)	How can the spread of the above pathogen be controlled? Give three ways.	(03 marks)

SECTION B

Attempt only one question from this section

5. Wepkhulu's dad felt pain in his body and he suspected that he had malaria. He visited a clinic for a medical check-up. The doctor requested a laboratory technician to obtain a blood sample from him. He found out that a number of red blood cells had been affected by the malaria parasite. On his way back, Wepkhulu's dad met the village chairperson. He narrated to him what had transpired in the clinic. The chairperson told him that other people in the village were experiencing similar symptoms. The chairperson admitted that he did not know about cells.



Task

Using your knowledge and understanding of cells, help
Wepkhulu to design a poster he can give to his dad to help the chairperson to educate the village about cells. (10 marks)

6. It has been noted that sugar scarcity in the country has progressively increased, and leaders are trying to find ways of curbing this problem. There has been a decision taken by the district administration to give away the government land next to your school to Mr. Sanje, an Indian Investor dealing in sugar production industry, to build a sugar factory and also plant sugar cane. This land covers a total area of 5km², and is the biggest natural forest in your district. The school community is however concerned about this issue





Task:

You are the president of the Nature club in your school and you have been tasked to write a letter to the district forestry officer.

Using your knowledge of life processes, write a letter to the district forestry officer, outlining clearly why it is important that the forest be conserved. (10 marks)

END

"The people that finally get to the top of their dreams are those that keep pushing forward, even when the tides seem to be going against them"











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