

NAME: STREAM:

SIGNATURE: LIN:

CBC

BIOLOGY PAPER 1

(THEORY)

TIME: 2 HOURS

END OF YEAR EXAMINATIONS-2022

S.2 BIOLOGY PAPER ONE

(THEORY)

2HOURS

Instructions

- ❖ Attempt all questions in section A and any two questions from section B.
- ❖ Answers to section A must be written in the spaces of the question paper provided.
- ❖ Answers to section B must be written in the answer booklet provided.

For official use only			
Section	Question	Score	Examiner's comments
A	1		
	2		
	3		
	4		
	5		
B	6:		
	7:		
	8:		
	9:		
Total	1-7	Identifier	Descriptor

SECTION A (40 MARKS)

1.

(a) State the two main branches of biology. (02 marks)

(i)

(ii)

(b) Mention any four scientific skills acquired after studying biology. (04 marks)

(i)

(ii)

(iii)

(iv)

(c) Give any four areas where the knowledge of biology is commonly applied in your society. (04 marks)

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2.

(a) Biology is the science of life.

As a biology student, state any five life processes that define life. Give the importance of each life process to organisms. (10 marks)

(i) Life process:
Importance

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(ii) Life process:
Importance

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(iii) Life process:
Importance

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(iv) Life process:
Importance

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(v) Life process:
Importance

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3. Both plants and animals are living things. Name any four life processes and describe how they can be used to differentiate plants from animals.

(i) Life process:
Description

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(ii) Life process:
Description

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(iii) Life process:
Description

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(iv) Life process:
Description

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(v) Life process:
Description

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4.

(a) Name the two major types of cells. (02 marks)

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(b) To a common man, cells can be called factories of the body. (04 marks)

Name the parts of the cell that are equivalent to the following components of the factory.

(i) Factory's walls/fence:

(ii) Factory's compound:

(iii) Factory's store of plans/blue print room:

(iv) Factory's power plant:

(c) Give the function of each of the cellular parts named in 4 (b) above.

(04 marks)

(i)

(ii)

(iii)

(iv)

5. The **figure 1.0** below shows an animal.



The animal shown above has different local names depending on the part of the world and few are shown below.

Language	Name
English	Rabbit
Luganda	Akamyu
Swahili	Sungura
Japanese	Nousangi
Chinese	Tianchao Zhengfu

- (a) Using the information above, state the disadvantages associated with naming organisms using local names. (04 marks)

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- (b) The biological name of a rabbit is *Oryctolagus cuniculus*.

- (i) State the system that was used to name the rabbit as shown above. (01 mark)

- (ii) Outline the advantages of naming organisms using the system stated in 5(b) (i) above. (05 marks)

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SECTION B (20 MARKS)

6. Mr. Jeero Filbert bought a new a plot of land with already planted maize crops. He wants now to weed his maize crops using a herbicide but he doesn't know the best chemical to use since he is lacking the information about the plants to be removed.
Task: As a biology student, construct a dichotomous key to help him to identify the common plants that are likely to be in his plot, upon which he can base on to buy a suitable herbicide to remove the weeds from his garden without damaging his crops. (10 marks)
7. There is an outbreak of Ebola in Mubende district. Several people are admitted to different hospitals currently. The government is seeking a quick solution to the problem.
Task: You have been selected to make a presentation to the community about the current situation. Demonstrate how you handle this. (10 marks)
8. Mr. Musisi Mohammed, the chairperson of Bukomero LC1 found Ms. Nambazira Jesca burning bees in her garden that they are preventing her from doing her work. The chairperson told her that what she was doing was more dangerous to the environment but the lady insisted.
Task: As a young biologist, write a letter to Ms. Nambazira Jesca, educating her upon the importance of conservating insects. (10 marks)
9. While touring around the different parts of your district, Ms. N Fausta noticed bare lands which couldn't bear healthy crops.
Task: using the knowledge of soil science learnt, write a speech on the possible causes of this and methods of preventing it.

END