**Biology**
**Paper 1**
**Form 2**
**2 hours**

**COMPREHENSIVE BIOLOGY TRANSFORMATION INITIATIVE**

**END OF TERM ONE-2023**

**COMPETENCY-BASED CURRICULUM**

**S.2 BIOLOGY EXAMS**

**Time: 2 Hours**

**FOR EXAMINERS USE ONLY**

| Qn | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 12 | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Marks | | | | | | | | | | | | |

**Instructions**

**This paper consists of two sections; section A (40 marks) and section B (60 marks).**

**Section A consists of eight structured questions. Answer all the questions in this section in the spaces provided.**

**Section B consists of six extended short essay questions. Attempt any four questions from this section.**

**Answers to this section must be written on the answer booklet provided.**



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## SECTION A (40 Marks)

**Attempt ALL questions in this section**

1. A student caught an animal which had the following characteristics:

   Body divided into two parts

   Simple eyes

   Eight legs

   (a) State the class to which the animal belongs (01 mark)

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   (b) Suggest the phylum and its characteristics to which the animal belongs. (04 marks)

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2. Oil can be applied on the stagnant water to control the spread of malaria.

(a) How does this practice control the spread of malaria? (02 marks)

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(b) Give one reason why this practice should be discouraged. (01 mark)

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(c) Propose **one** method which is scientifically more acceptable for controlling malaria. (02 marks)

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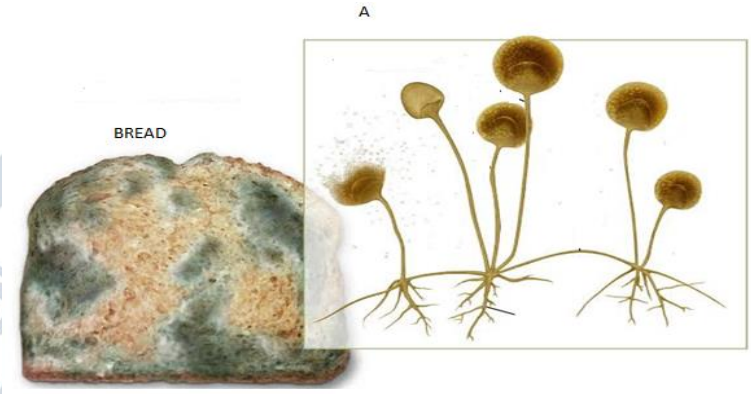
3. Senior one student observed bread mould using naked eyes and then using microscope. The results are shown below.




(a) Why do you think mould grow on bread? (01 mark)
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(b) What are the dangers of eating food with mould? (02marks)
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(c) Give **two** economic importance of organisms which share kingdom with bread mould. (02 marks)
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4. A student put a spatula end full of soil in a clean test tube, and then added water to just cover the soil. The student then added 5 drops of universal indicator and had to shake thoroughly and filtered the mixture into test tube. The procedure was repeated with other more two soil samples.

(a) Identify the property of the soil being investigated? (01 mark)

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(b) Suggest how the student used the filtrates to determine the property of the soil mentioned in (a) above. (02 marks)

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(c) What is the importance of testing the property of the soil to a farmer? (02 marks)

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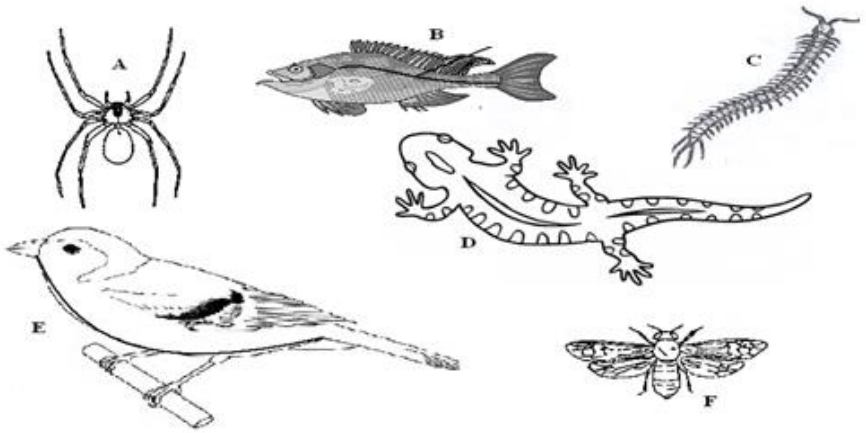
5. The diagrams below show animals observed on school farm. Study them carefully and answer the questions that follow.




(a) Using one observable feature, identify the kingdom to which the organisms belong. (01 mark)

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(b) Make a dichotomous key to identify each of the organisms.

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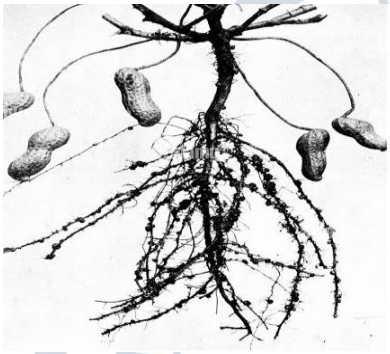
6. The diagram show part of ground nut plant obtained from the school farm. Study it carefully and answer the questions that follow.



(a) Use the observable feature to identify the type of root system in ground nut.

( 02 mark)

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(b) Describe the role of round structures on the root in improving soil fertility.

(03 marks)

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7. The figure below show leaves obtained from different named plants. Study them carefully and answer the question.


Use observable features to classify each of the leaves. (05 marks)

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8. Stem forms the largest part of a plant a plant. It comprises of different parts that have different functions. State parts of stems with their function(s). (05 marks)

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## SECTION B (60 Marks)

9. Your parents have obtained three pieces of land in different locations.
Three soil samples have been obtained from the lands A, B and C.

(a) You are required to design an experiment to analyse the soil samples and suggest one farm where fish pond can be constructed. (10 marks)

(b) Give other ways through which the farm can be put into use. (05 marks)

10. Organisms are grouped according to similarities and differences in their characteristics. Use characteristics of skins, eggs and methods of temperature regulation only. Classify rat, tilapia, lizard, hen and toad into classes of phylum chordata. (15 marks)

11. Your school farm contains citreous fruits plants (oranges, lemons etch). The plants are stunted with yellow leaves. They produce few small fruits.
How can you and your class solve the problem on the school farm? (15 marks)

12. Mwa Eno farm in Pakwach has been producing poor yield of crops.
The newly employed farm manager has proposed use of good seeds and other planting materials to solve the problem. Surprisingly he has proposed distribution of those good materials to neighbours too, which the company directors have rejected.
Using your knowledge of biology, explain how the strategy of distribution of good planting material to the neighbours can improve crop yield on Mwa Eno farm. (15 marks)

**END**



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