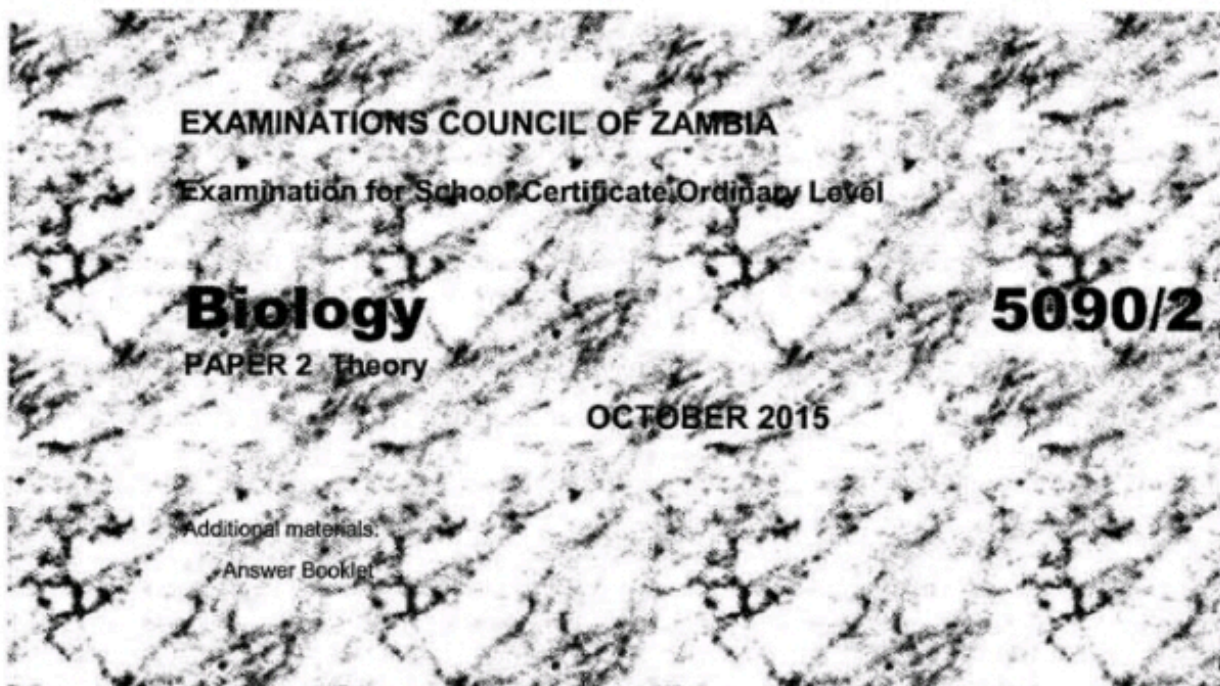


Candidate Name: _____

Centre Number			Candidate Number							



TIME: 1 hour 45 minutes

Instructions To Candidates

Write your name, centre number and candidate number in the spaces at the top of this page and on the **Answer Booklet** used.

There are **ten** questions in this paper.

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Section A

Answer **all** questions.

Write your answers in the spaces provided on the question paper.

Section B

Answer any **three** questions.

Write your answers in the Answer Booklet provided.

At the end of the examination:

- 1 fasten the Answer Booklet used securely to the question paper,
- 2 enter the numbers of the Section B questions you have answered in the grid on the bottom right side corner.

Information for candidates

The number of marks is given in brackets [] at the end of each question or part question.

You are advised to spend no longer than one hour on Section A and no longer than 45 minutes on Section B.

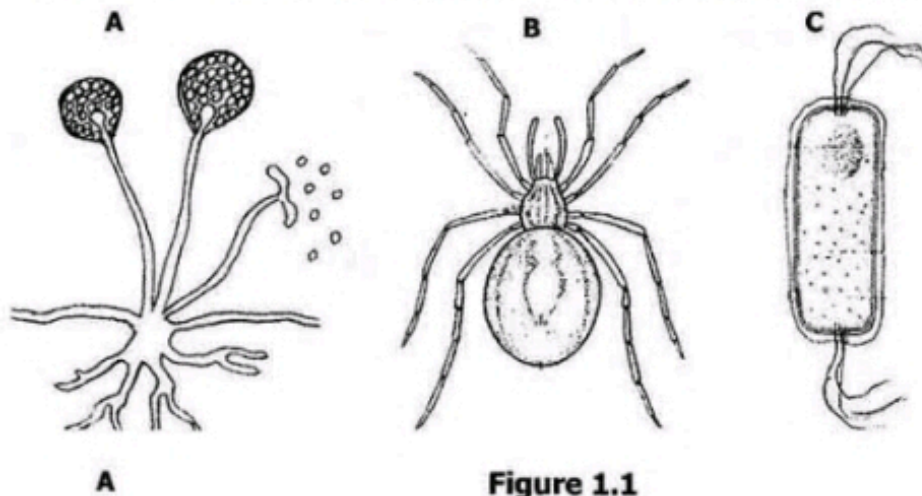
Cell phones are not allowed in the examination room.

FOR EXAMINER'S USE	
Section A	
Section B	
Total	

Section A [44 marks]

Answer all the question in the spaces provided on the question paper.

1 Figure 1.1 shows three different types of organisms labelled A, B and C.



(a) (i) Identify the three organisms shown in Figure 1.1 above.

A is

B is

C is..... [2]

(ii) Classify the organisms identified in (a) (i) above according to their kingdoms.

A

B

C [3]

(b) (i) State **two** organisms which might bring about decay of organic matter.

1

2 [2]

(ii) Name **one** disease caused by organism A.

..... [1]

[Total: 9]

- 2 **Figure 2.1** shows the structure of a mammalian sperm

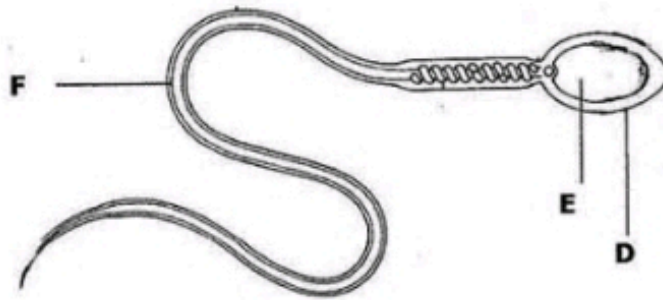


Figure 2.1

- (a) (i) Identify the parts labelled **D** and **E**.

D

E [2]

- (ii) Explain the function of the part labelled **F**.

.....

..... [1]

- (b) What substance produced by the cervix enable the sperm to swim in the female reproductive tract?

.....

..... [1]

- (c) (i) Explain why only **one** sperm fertilises the ovum.

.....

.....

..... [2]

- (ii) Distinguish between a sperm and an ovum.

.....

.....

..... [2]

[Total: 9]

3 Figure 3.1 shows the life cycle of a housefly.

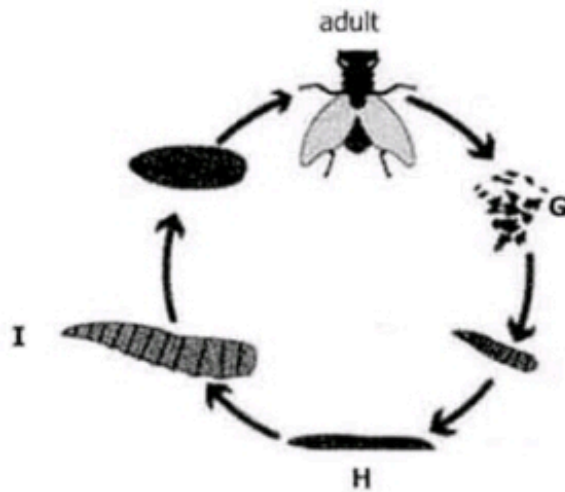


Figure 3.1

- (a) (i) Identify the stages labelled **G** and **H**.
- G** [1]
- H** [1]
- (ii) Explain the changes taking place during stage **I**. www.eczpastpapers.com
-
-
- [3]
- (b) (i) Which stage in **Figure 3.1** would be the most effective for eradicating houseflies?
-
-
- [3]
- (ii) Using a named example, describe the role of a housefly in disease transmission.
-
- [1]
- [Total: 9]**

- 4 **Figure 4.1** shows the growth of mucor on nshima.

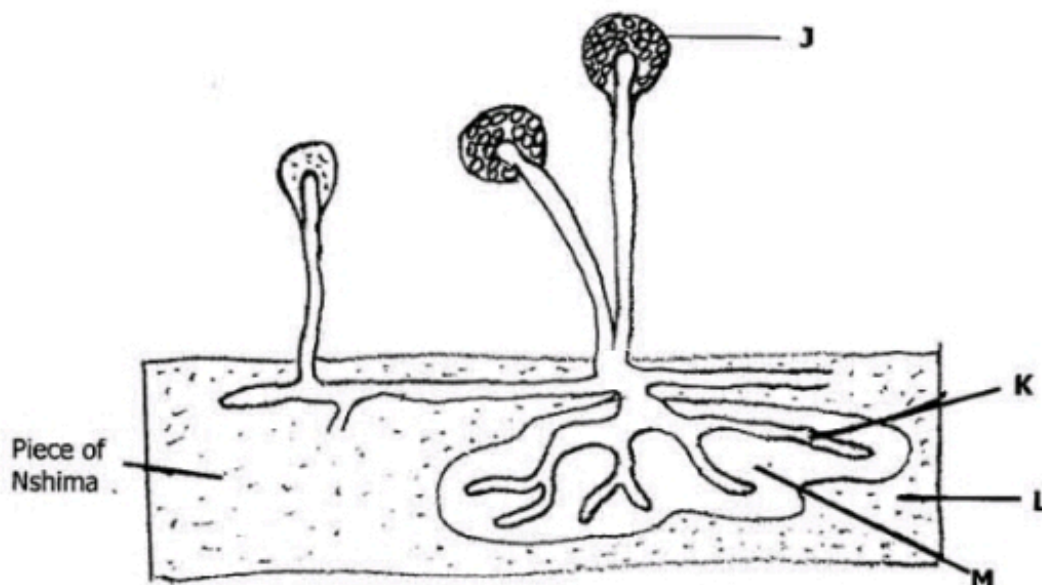


Figure 4.1

- (a) (i) Identify structure **J** in **Figure 4.1**

.....
 [1]

- (ii) Explain how structure **K** obtains nutrients from the nshima.

.....

 [4]

- (b) The nshima was flooded with iodine solution. State colour changes that would occur.

- (i) at **L**

.....

- (ii) at **M**

..... [2]

- (c) Give reasons for the colour changes observed in (b) above.

.....

..... [2]

[Total: 9]

[Turn over

5 (a) State **one** sex linked disease

..... [1]

(b) What is meant by the term sex-linked characteristics?

.....

.....

.....

..... [3]

(c) Using a genetic diagram and appropriate symbols, explain how a man with normal eye sight married to a woman who is a carrier of the trait for colour blindness can have a child who is colour blind.

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[2]

[Total: 9]

Section B [30 marks]**Answer any three questions**

6 (a) Explain the term homeostasis [2]

(b) Discuss the role of the liver in homeostasis. [10]

[Total: 12]

7 (a) Describe the process of seed germination. [9]

(b) Explain how auxins affect the growth of shoots. [3]

[Total: 12]

8 (a) Explain the term respiration. [2]

(b) Distinguish gaseous exchange in fish and insects. [4]

(c) Explain how the alveolus is adaptation for gaseous exchange. [6]

[Total: 12]

9 (a) Explain what is meant by double circulation in humans? [2]

(b) Distinguish between the two parts of the double circulation. [3]

(c) Discuss the transport functions of blood. [7]

[Total: 12]

10 (a) Explain the following terms: [2]

(i) Community

(ii) Habitat

(iii) Niche [6]

(b) Describe the role of producers, consumers and decomposes within an ecosystem. [6]

[Total: 12]