

KIAMBU INTERZONAL

KENYA CERTIFICATE OF SECONDARY EDUCATION

231/3

BIOLOGY(PRACTICAL)

PAPER 3

JULY/AUGUST-2009

TIME: 2 HOURS

You are provided with suspension labeled M and liquid N. Divide each of these into two portions.

- (a) Using the reagents provided test for the food substances in the first portions of suspension M and liquid N. Record your procedures, observations and deductions in the table below.

Portion 1 of suspension M

FOOD	PROCEDURE	OBSERVATIONS	DEDUCTIONS

Portion 1 of Liquid N

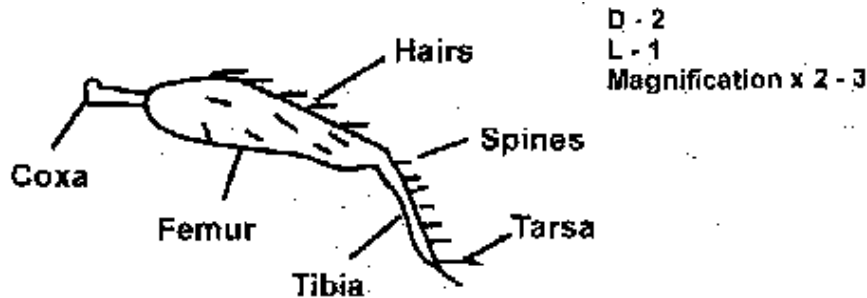
FOOD	PROCEDURE	OBSERVATION	DEDUCTIONS

- (b) Using a piece of thread provided, tie one end of the visking tube. Open the other end of the visking tubing and fill it with the second portion of suspension M. Tie to close the visking tubing, wash and then place in the second portion of liquid N. Leave the set up for 20 minutes. After 20 minutes remove the visking tube and then test for the food substances present in liquid N. Record your procedures, observations and deductions in the table provided.

FOOD	PROCEDURE	OBSERVATIONS	DEDUCTIONS

- (C) Account for the results obtained after carrying out food tests in liquid N after 20 minutes. (5 marks)

2. You are provided with specimen labeled P.



Examine it carefully using a hand lens.

- (a) Classify specimen P under the following taxonomic groups giving reasons for your answer.
- (i) Kingdom (1 mark)
Reason (1 mark)
- (ii) Phylum (1 mark)
Reasons (2 marks)
- (iii) Class (1 mark)
Reasons (2 marks)
- (b) State the type of habitat of specimen P based on general structure.
Given reason

Specimen	Steps followed	Identify
B ₁		
B ₂		
B ₃		
B ₄		
B ₅		
B ₆		
B ₇		
B ₈		

(b) With a reason state the habitat of specimen B₁.

Habitat

(1 mark)

Reason

(1 mark)

(c) Classify specimen B₂ into the following taxa sub-division. (1 mark)

Class

(1 mark)