

Name _____ Index No. _____

Candidate's signature _____

Date _____

231/3
BIOLOGY
PAPER 3
PRACTICAL
JULY/AUGUST 2014
1 ¾ HOURS

MWALA DISTRICT FORM IV JOINT EXAMINATION 2014
Kenya Certificate of Secondary Education
BIOLOGY
PAPER 3
1 ¾ HOURS

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the spaces provided above
2. Sign and write the date of examination in the spaces provided above
3. Answer all the questions in the spaces provided
4. You are allowed to spend the first 15 minutes of the 1 ¾ hours allowed for this paper reading the whole paper carefully before commencing your work
5. Additional pages must not be inserted

For examiner's use only

Question	Maximum score	Candidate's score
1	14	
2	14	
3	12	
Total score	40	

1. You are provided with two solids X and Y. Place solid X into a boiling tube and add 10ml of distilled water and stir to dissolve. Label the resulting mixture as solution X. Divide the solution X into equal portions in three test tubes all labeled A, each of which will be used for a food test in the table below. Place solid Y into a boiling tube and add 10ml of distilled water and stir to dissolve. Label the resulting mixture as Y. divide the solution Y into equal portions in three separate test tubes all labeled Y, each of which will be used for a food test in the table below.

(a) Using the reagents provided carry out food tests to determine the food substances present in solutions X and Y in each of the test tubes. In each case, record the food substance tested for, procedure, observation and conclusion in the table below. (9mks)

Solution	Food substance	Procedure	Observation	Conclusion
A				
B				

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(b) (i) Which of the two solids would be appropriate to be included in a diet of a family whose children suffer from kwashiorkor (1mk)

(ii) Give a reason for your answer in b (i) above (1mk)

(c) (i) Name the part of the digestive system where digestion of the food substance (s) found in y starts (1mk)

(ii) Name the enzyme which starts the digestion of the food substance(s) in y (1mk)

(d) State one importance of the food substance in solid X (1mk)

2. You are provided with specimen labeled A, B, C and D. Examine them

(a) Make a transverse section of specimen B. Draw and label the section as observed (5mks)

(b) Giving reasons, state the agent of dispersal of the specimens

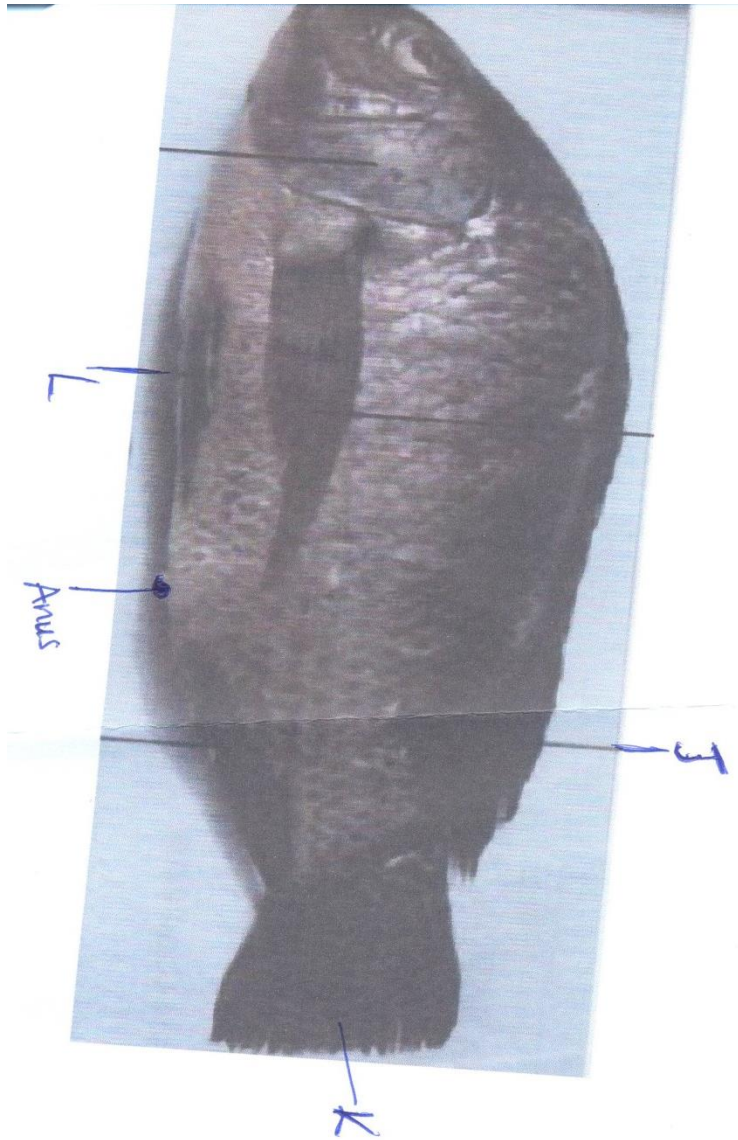
(8mks)

Specimen	Agent	Reason(s)
A		
B		
C		
D		

(c) State the placentation of specimen B

(1mk)

3. Study the photograph below and answer the questions that follow



(a) (i) Name the class to which the specimen belongs

(1mk)

(ii) Give two reasons for your answer in a (i) above

(2mks)

(b) (i) What term is used to describe the shape of the specimen

(1mk)

(ii) What is the significance of your description in b (i) above (1mk)

(c) Measure in millimeter the length of

(i) Specimen from tip of the mouth to the tip of the tail

Length _____ mm _____ (1mk)

(ii) From the anus to the tip of the tail

Length _____ mm _____ (1mk)

(ii) Using the measurement above, calculate the tail power (2mks)

(d) Name the parts labeled J, K, L (3mks)

J _____

K _____

L _____

ANSWERS:

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