

Name..... Index No:.....

231/3
BIOLOGY
PAPER 3
(THEORY)
JULY/AUGUST 2014
TIME: 2 HOURS

Candidate's Signature

Date:

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HOMA-BAY SUB-COUNTY JOINT EVALUATION EXAM

Kenya Certificate of Secondary Education (K.C.S.E.)

231/3
Biology
Paper 3
2 ½ Hours

INSTRUCTIONS TO CANDIDATES

- Write your **name** and **index number** in the spaces provided above
- **Sign** and write the **date** of examination in the spaces provided.
- Answer **all** the questions in the spaces provided.

For Examiners Use Only

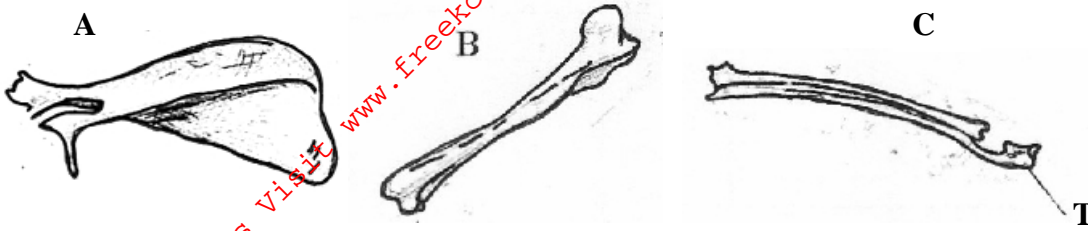
Question	Maximum score	Candidate's score
1	17	
2	12	
3	11	
Total	40	

This paper consists of 4 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

1. Examine the photograph of bones obtained from a mammal

(a) Identify them

(3mks)



A.....

B.....

C.....

(b) Name the joint formed between:

(i) The distal end of bone A and C

(1mk)

.....

(ii) The proximal end of bone B and the apex of A

(1mk)

.....

(c) How is the specimen labeled A adapted to its functions?

(4 mks)

.....
.....
.....
.....

(d) (i) Name the part labeled T on specimen C

(1mk)

.....

(ii) State **two** functions of the part T

(2mks)

.....
.....

2. You are provided with solution labeled **K**

(a) Using the reagents provided test for the food substances found in solution K. Record the food you have tested for, procedure observation and conclusion in the table below

Food substance	Procedure	Observation	Conclusion

(b)(i) Name an enzyme that may be required to digest the food substance found in solution **K** in a human being. (1mk)

.....

(ii) State the name of the part of alimentary canal in which the enzyme named in (b)(i) above is found (1mk)

.....

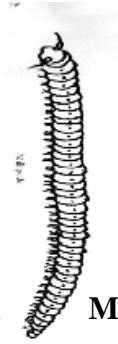
3. The photographs below show a variety of animals collected by a group of students during a field study.



Earth worm



Sea



Millipede



Honey bee



Centipede



Spider



House fly



Round worm

(a) Using the observable characteristics only draw up a dichotomous key for the above animals (13mks)

The key should begin with:

1(a) Body bilaterally symmetrical.....go to 2

(b) Body.....

.....

.....

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.....

.....

(b) (i) Name the phylum to which the housefly and the spider belong (1mk)

.....

.....

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

.....