**Name**…… …….…… Index No:…….

**231/3**
**BIOLOGY**
**PAPER 3**
**(THEORY)**
**JULYAUGUST 2014**
**TIME: 2 HOURS**

Candidate's Signature ……..……
Date: ……

# 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.

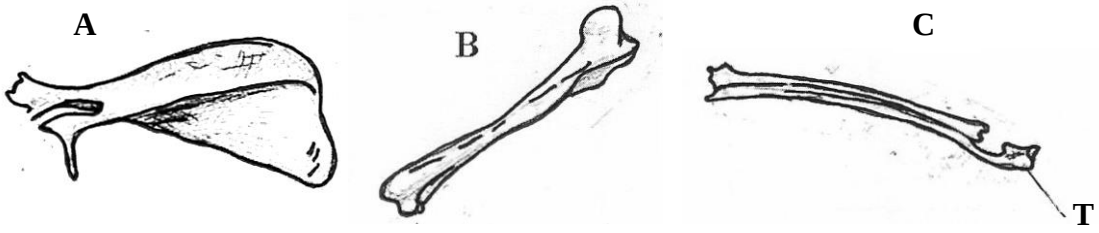
**For Examiners Use Only**

| 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)

……

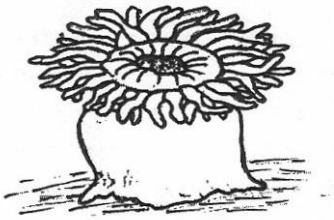
(ii) State the name of the part of alimentary canal in which the enzyme named in (b)(i) above

is found (1mk)

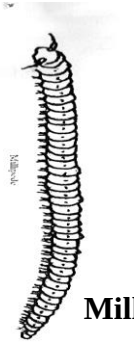
……

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

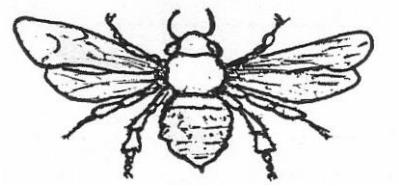
**Earth worm**



**Sea**

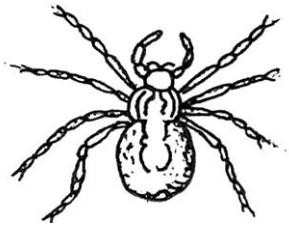


**Millipede**



**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……..

……

……

……

……

……

……

……

……

……

(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)

……

**ANSWERS:**
Order a copy of answers from www.schoolsnetkenya.com/order-e-copy
NB> We charge Kshs. 100 ONLY to meet website, e-resource compilation and provision costs