

## MURANG'A SOUTH MULTILATERAL EXAMINATION 2016

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

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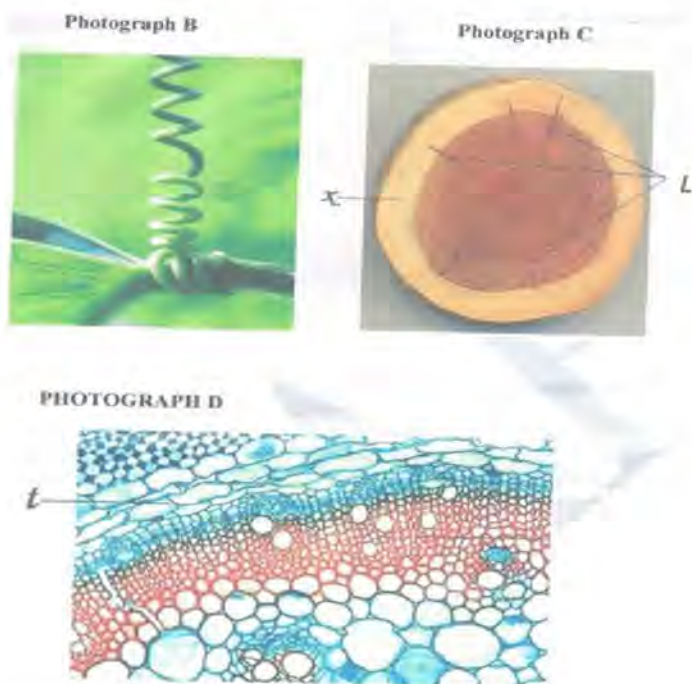
BIOLOGY

PAPER 3 (PRACTICAL)

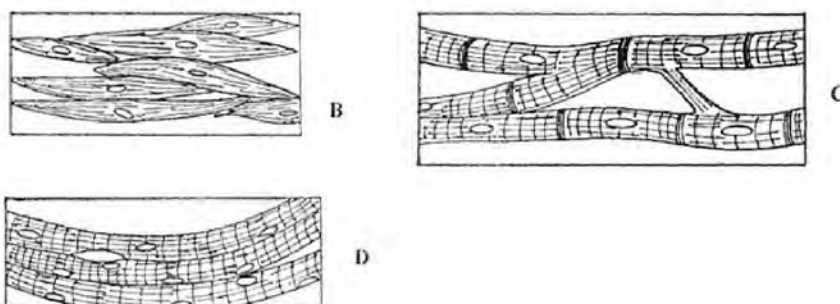
JULY/AUGUST 2016

TIME: 2  $\frac{1}{4}$  HOURS

1 (a) Photographs B, C and D below represent support structures in plants. Use them to answer the questions that follow.



- (i) Name the support structure represented by photograph B (1mk)  
 (ii) Explain briefly how the coiling in photograph B occurs (3mks)  
 (iii) Name the structures labeled L on photograph C. (1mk)  
 iv). Photograph D is a magnified photomicrograph of support tissues found in part x of photograph C. Give the name of the tissue labeled t. (1mk)  
 (vi) Describe the structure of the cells of the tissue named in (a) (iv) above (2mks)
- (b) Figure 2 represents different types of muscles. Study them carefully and answer the questions that follow.



- (i) Identify the muscles labelled C and B. (2mks)  
 (ii) Using observable features only; state **two** differences between muscles labelled B and D. (2mks)  
 (iii) State **one** function of each of the muscles labelled B and C. (1mk)  
 (iv) Give **one** adaptation of a muscle labelled C to its function. (1mk)

2. (a) You are provided with reagents

P – Iodine,

R-DCPIP

S-Sodium hydroxide

T-Copper (II) sulphate

Use the reagents to identify the food substance(s) in solution K

Food	Procedure	Observation	Conclusion

(9mks)

- (a) Name the end product of digestion of food substance(s) present in solution K

(1mk)

- (b) Describe the assimilation of food substance(s) identified in 2(a) above

(2mks)

3. You are provided with specimen labeled X, use it to answer questions that follow.

- (a) (i) State the agent of pollination

(1mk)

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

(2mks)

- (b) Describe FOUR floral parts of specimen X

(8mks)

- (c) (i) State the class to which the specimen X belongs

(1mk)

- (ii) Give one reason for your answer in c(i) above

(1mks)