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231/3
BIOLOGY
PRACTICAL
JUNE/AUGUST 2010
PAPER 3
1 ¾ HOURS

FORM FOUR MID-YEAR CONTINUOUS ASSESSMENT TEST
Kenya Certificate of Secondary Education
BIOLOGY
PAPER 3
PRACTICAL
1 ¾ HOURS

INSTRUCTION TO CANDIDATES

1. Answer all the question questions in the spaces provided.
2. Use the first 15 minutes to read the instructions

For Examiners use only.

Question	Maximum score	Candidate's score
1	13	
2	17	
3	10	
Total	40	

This paper consist of 5 printed pages

Please Turn Over

1. Below are photographs of animals labeled R and T. study them carefully and answer the questions that follow.

Specimen R

Specimen T (1) (2) (3)

(a) (i) Label the three major body parts on photograph R. (3mks)

(ii) Name the phylum to which the animal in photograph R belongs. (1mk)

(iii) List three characteristics found in members belonging to the phylum of specimen R only. (3mks)

(iv) Which class does the animal in photograph R belong? (1mk)

(b) Using observable features only, state three differences between the animals in photograph R and T (3mks)

(c) On the photograph T name the parts labeled 2 (2mks)

3

2. You are provided with substances M, N, O, P, Q and S. S is a suspension of a food substance. M is Sodium hydrogen carbonate. N is hydrochloric acid, O is 1% copper (II) sulphate solution, P is 10% sodium hydroxide and Q is Benedict's solution. Carry out tests to determine the food substance(s) in suspension S. (17marks)

Food substance being tested	Procedure	Observations	Conclusion

3. Below is a diagram of a stem of a herbaceous plant placed in different solutions for 30 minutes. Study the diagram carefully and answer the questions that follow.

Epidrmis Cortex X Y

(a) Name the physiological process being tested above (1mk)

(b) Identify the solution in which the strips X and Y were placed in
X

Y

(c) Account for the observations made in

(2mks)

(i) X

(2mks)

(ii) Y

(2mks)

(d) State and explain the observation made when red blood cells are placed in Solution Y in (b) above

(3mks)
