

**KENYA HIGH SCHOOL MOCK 2020  
BIOLOGY PAPER 3**

**KENYA HIGH SCHOOL  
JULY 2019**

**BIOLOGY  
Paper 3 (Practical)**

**Time: 1 ¼ Hours**

**FOR EXAMINER'S USE**

Questions	Maximum score	Candidates score
1	11	
2	16	
3	13	
<b>Total score</b>	<b>40</b>	

1. You are provided with solution P<sub>1</sub>, P<sub>2</sub> and P<sub>3</sub>, P<sub>2</sub> is the same as P<sub>3</sub> except that P<sub>3</sub> has been boiled  
Label 3 test tubes A, B, C  
Into test tube A add 1ml of solution P<sub>1</sub>  
Into test tube B add 1 ml of P<sub>1</sub> and 1 ml of P<sub>2</sub>  
Into test tube C add 1 ml of P<sub>1</sub> and 1 ml of P<sub>3</sub>

- (a) Withdraw a drop of solution immediately from test tube A, B, C and place on a white then to each drop, add a drop of iodine solution. Record your observation in the table below

Test tube	Observation	Conclusion
A		
B		
C		

(3 marks)

- (b) Place the test tube A, B, C into a water bath at 37°C. leave the setup to stand for about 30mins. Withdraw a drop of solution from test tube A, B, C and place on a white tile. To each drop, add a drop of iodine solution, Record your observation and conclusion in the table below

Test tube	Observation	Conclusion
A		
B		
C		

- c) Account for the results at the end of the experiment (b above) in test tube labeled  
(i) B  
(ii) C

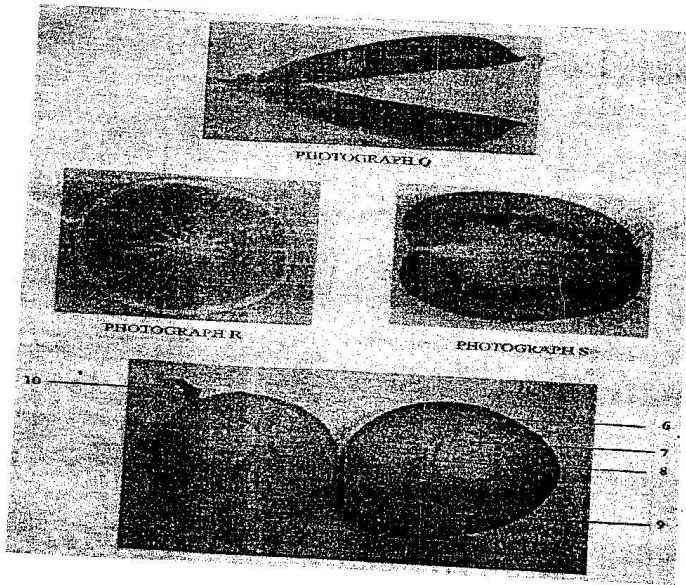
d(i) Suggest the identity of solution P<sub>2</sub>

( 1 mark)

(ii) Give 2 reasons for your answer in d(i) above

( 2 marks)

2. The photographs labeled Q,R S,T are sections of some parts of plants



(a) Name the type of placentation in the specimen J shown in photographs Q ,R ,S

Q.....

R.....

S.....

(b) Label a seed in photograph R and S

(3 marks)  
(2 marks)

(c) Name the parts labeled 6, 7, 8, 9,10 in photograph T

6.....

7.....

8.....  
9.....  
10.....

(5 marks)

- (d) Giving a reason in each case name the mode of dispersal of each of the specimens in photograph's Q and T

Q \_\_\_\_\_  
Reason \_\_\_\_\_  
T \_\_\_\_\_  
Reason \_\_\_\_\_

(4 marks)

3. You are provided with specimen R

- (a) State the mode of pollination

(1 mark)

.....  
.....

- (ii) Give 2 reasons for your answer in (i) above

(2 marks)

.....  
.....

(b) You are provided with specimen S1

- (i) State the mode of pollination

(1 mark)

- (ii) Give 2 adaptive features to its mode of pollination

(2 marks)

(c) Label on the specimen R any 4 parts

(4 marks)

(d) Give the identity of X in specimen S1

(1 mark)

(e) Tabulate any 2 observable differences between specimen R and S that adapts each to its mode of Pollination

(4 marks)