

KENYA HIGH SCHOOL

MOCK 2019

BIOLOGY PAPER 3

FOR EXAMINER'S USE

Questions	Maximum score	Candidates score
1	11	
2	16	
3	13	
Total score	40	

1. You are provided with solution P₁, P₂ and P₃, P₂ is the same as P₃ except that P₃ has been boiled
Label 3 test tubes A, B, C
Into test tube A add 1ml of solution P₁
Into test tube B add 1 ml of P₁ and 1 ml of P₂
Into test tube C add 1 ml of P₁ and 1 ml of P₃

- (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		

- (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 (3 marks)

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

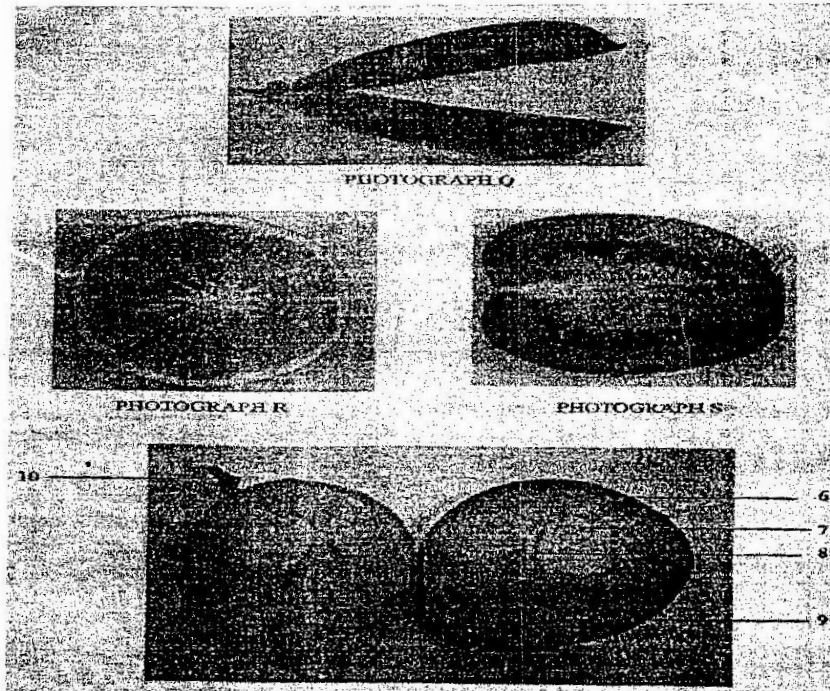
d(i) Suggest the identity of solution P₂

(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.....

(3 marks)

(b) Label a seed in photograph R and S

(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)