

Name..... Index No...../.....

Candidates Signature.....

Date.....

231/3

BIOLOGY PRACTICAL

Paper 3

March 2017

TIME 1 HOUR 45 MIN

SUNSHINE SCHOOL-NAIROBI

Pre-Mock 1 2017

231/3

BIOLOGY PRACTICAL

Paper 3

July/August 2017

TIME: HOURS

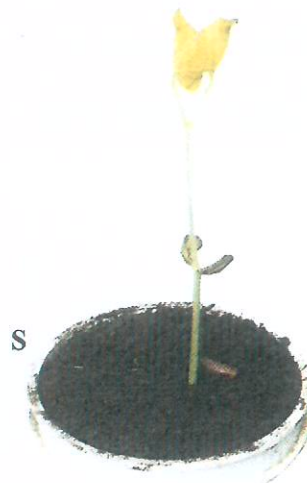
INSTRUCTIONS TO CANDIDATES

- Write your name and Index Number in the spaces provided above.
- Sign and write date of examination in the spaces provided above.
- Answer **ALL** questions in the spaces provided.

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
1	13	
2	14	
3	13	
Total		

1. The photographs below show three bean seedlings that are of the same age but grown under different environmental conditions. Examine them.



(a) Based on external appearance of the seedlings, suggest the conditions under which each of them was grown (3mks)

Q.....

R.....

S.....

(b) List three observable differences between seedlings R and S (3mks)

Seedling R	Seedling S

© State the term used to describe the phenomenon exhibited by specimen S hence give the significance of the phenomenon (2mks)

Term.....

Significance.....

.....

(d) Name the response exhibited by seedling Q and explain how it occurs

(3mks)

Name.....

Explanation.....

.....

.....

.....

(e) State the type of germination that occurs in the three seedlings and give a reason (2mks)

Name.....

Reason.....

.....

Question 2

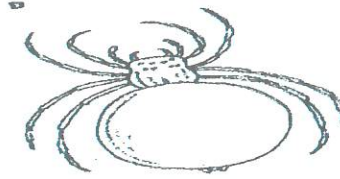
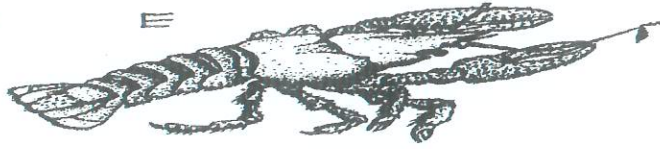
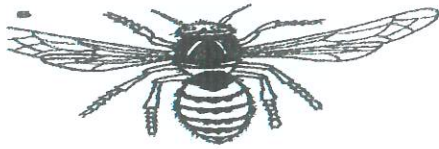
You are provided with solutions X, dilute hydrochloric acid; solution Y, Benedict's Solution; D.C.P. I. P solution, solution W, Sodium hydrogen carbonate solution.

Using the reagents provided, investigate the food substances in the solution labeled T and complete the table below (14mks)

Food substance	Procedure	Observation	Conclusion

Question 3

Examine the diagrams of the animals A, B, C, D, and E.



(a) Using observable features, identify the phylum to which the animals belong

Phylum(1mk)

Reasons

(2mks)

(i).....

(ii).....

Use the key given to answer the questions that follow

- 1(a) Animals with wingsInsecta
- (b) Animals without wingsgo to 2
- 2(a) Animals with 8 legsArachnida
- (b) Animals with more than 8 legs.....go to 3
- 3(a) Animals with two body partsCrustacea
- (b)Animals with body metamerically segmentedgo to 4
- 4(a) Animals with one pair of legs on each body segment.....Chilopoda
- (b) Animals with 2 pairs of legs on each body segmentDiplopoda

Using the key complete the table below (10 mks)

Animal	Steps	Identity
A		
B		
C		
D		
E		

