KENYA HIGH SCHOOL

POST MOCK EXAMINATIONS BIOLOGY PAPER 3 FORM 4 2021

Kenya Certificate of Secondary Education

 (a) You are provided with a solution L. Using the reagents provided; determine the food compounds in L. Fill in the table below.

FOOD COMPOUND	PROCEDURE	OBSERVATION	CONCLUSION

(b) Place 10mls of solution L in a visking tubing. Tie both ends and place it in 50mls of distilled water contained in a beaker.leave the set up for 20 minutes and make observations.

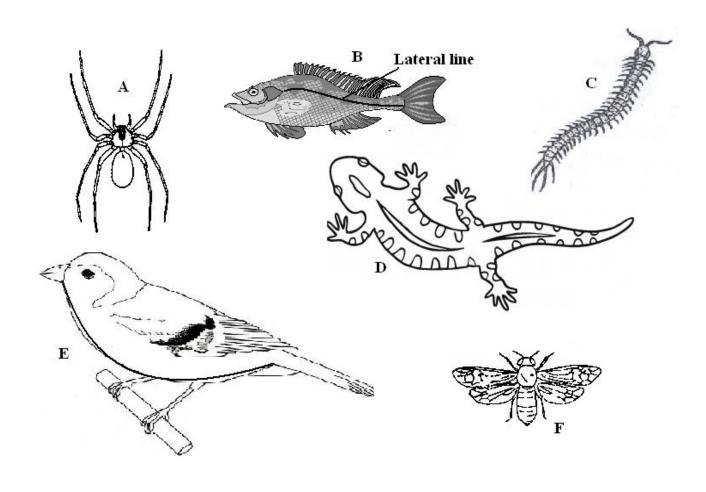
		231/3 Biology Paper 3
(i)	Observations.	(1mark)
	(ii) Account for the observation in b (i) above.	(2marks)
	(iii)Give the equivalent of a visking in the bodies of living organisms.	(1mark)
1	Study the photomicrograph of the longitudinal section of a maize fruit below that follow. A D C B	w and answer the questions
	(a) (i) Name the parts labelled A, B, C and D.	(4marks)
	A	
	В	

C

D

231/3 Biology Paper 3 (ii) Give the role played by A and D. (2 mark) A D (b) (i) Name the type of germination exhibited by maize grain. (1 mark) (ii) Place the organisms from where the photomicrograph was obtained into its Kingdom Division Class (3marks) (iii) State three characteristics of members of the class identified in b (ii) above (3marks) (c) Give one reason why the maize grain is classified as a fruit. (1mark)

3. Study the organisms drawn below and answer the questions that follow.



(a)	Use the dichotomous key below to identify the class the organisms belong t	to. (12 marks)
1.	(a) Phylum Chordata	go to 2
	(b) Phylum arthropoda	go to 3
2.	(a) Has scales on the body	go to 4
	(b) Has no scales on the body	Mammalia
3.	(a) Has cephalothorax	Arachnida
	(b) Has no cephalothorax	go to 5
4.	(a) Has fins	Pisces
	(b) Has no fins	go to 7
5.	(a) Has three pairs of legs	Insecta
	(b) Has more than three pairs of legs	go to 6
6.	(a) Two pairs of legs per segment	Diplopoda
	(b) One pairs of legs per segment	Chilopoda
7.	(a) Has feathers	Aves
	(b) Has no feathers	go to 8
8.	(a) Has a tail	Reptilia
	(b) Has no tail	Amphibia

231/3 Biology Paper 3

Specimen	Step followed	Identity
A		
В		
С		
D		
Е		
F		

(b) If the actual length from the tip of the mouth to the tip of the tail of the specimen B is					
	calculate the magnification.	(2marks)			