

Name _____ Adm. No _____
Class _____

Index No. _____ Candidates Signature _____
Date _____

231/3

Biology

Paper 3

July 2015

1 3/4 Hours



KENYA NATIONAL EXAMINATION COUNCIL

MOCKS EXAM

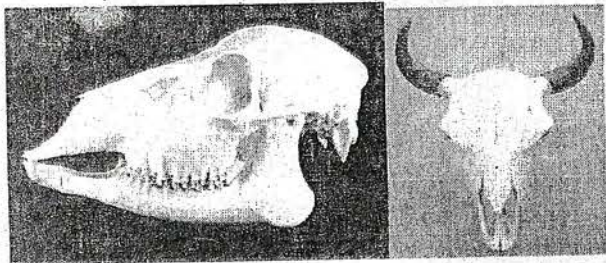
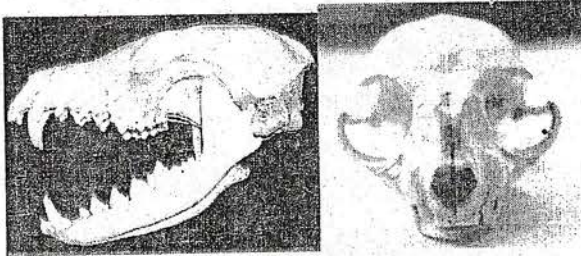
Instructions to candidates.

- a) Write your name, index and Adm. number, and class in the spaces provided.
- b) Sign and write the date of examination in the space provided.
- c) Answer ALL questions in the spaces provided.
- d) You are required to spend the first 15 minutes of the 1 ¼ hours allowed for this paper reading the whole paper before commencing your work.
- e) This paper consists of 7 printed papers.
- f) Candidates should check the question paper to ascertain that ALL the pages are printed as indicated and that no questions are missing.

For Examiners Use Only

Question	Maximum score	Candidates score
1	14	
2	15	
3	11	
Total	40	

1. You are provided with specimen A and B obtained from an animal whose skull is represented in the photographs below.



a) With a reason name the class of the animals from which the photograph were taken.

Class _____ 1mk

Reason _____ .1mk

b) State three observable differences between specimen A and B. 3mks

c) Explain how specimen A is adapted to its function. 1mk

d) Suggest the diet and mode of feeding of animal represented by photograph A.

Diet _____ Mode _____ 2mks

e) Using observable reasons only explain how animal represented by photograph A is adapted to its mode of feeding. 3mks.

f) (i) Letter S on the photographs indicates the position of the eyes in the skulls. With reference to the two distinguish between monocular and binocular vision. 2mks

(ii) What is the significance of the type of vision in photographs B to their mode of feeding. 1mk

2. You are provided with liquids M and N and a piece of visking tubing.

a) Using the reagents provided test for the food substances in M and N. Record your observations in the table below. 8mks

Liquid	Food substance	Procedure	Observation	Conclusion
M				
N				

b) Using a piece of thread, tightly tie one end of the visking tubing. Open the other end of the tubing and half fill it with liquid M, tightly tie this end. Ensure there is no leakage at both ends.

Immerse the tubing in a beaker containing liquid N. Leave the set up for 30 minutes. After 30 minutes, remove the visking tubing from the beaker and wash the outside of the tubing thoroughly to remove traces of liquid N.

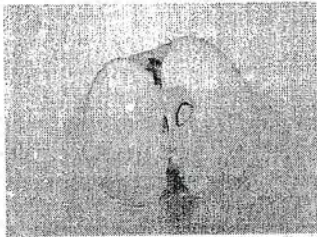
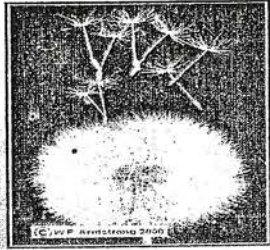
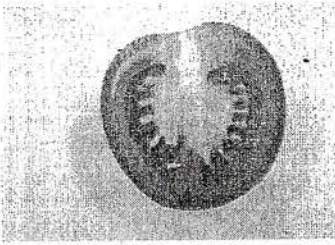
i) Using the same reagents, test for food substance in liquid M in the visking tubing. Record your observations in the table below. 2mks

Liquid	Food substance	Procedure	Observation	Conclusion
M				

ii) Account for the results obtained after carrying out tests on liquid M before and after immersion in to liquid N. 4mks

iii) From your answer in (b)(ii) above state one property of the visking tubing. 1mk

3. Below are photographs of specimens obtained from plants



a)(i) Apart from the seed label any two other parts on photograph G. 1mk

(ii) State the type of placentation in specimen E. 1mk

b) Name the mode of dispersal and state features that adapt it to the mode of dispersal. 6mks

Specimen	Mode of dispersal	Adaptive feature.
F		
G		
H		

c) Draw and label the cut surface as observed in photograph E 3mks

This is the last printed page