

NAME: _____ INDEX NUMBER: _____

CANDIDATES SIGNATURE: _____

DATE: _____

231/3
BIOLOGY
PAPER 3
(PRACTICAL)
JULY
1 ¾ hours

ALLIANCE HIGH SCHOOL
TRIAL EXAMINATION 2014

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above.
- Answer ALL the questions in the spaces provided.
- You are required to spend the first 15 minutes of the 1 ¾ hours allowed for this paper reading the whole paper carefully before commencing your work
- Additional pages must not be inserted.
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing
- Candidates may be penalized for recording irrelevant information and incorrect spellings especially of technical terms.

Questions	Maximum score	Candidates score
1	11	
2	12	
3	17	
Total	40	

This paper consists of 6 printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing.

1. You are provided with a visking tubing, a piece of thread and solution labeled N.
 Tie one end of the visking tubing using the thread provided.
 With the use of a syringe, put 10ml of solution N into the visking tubing.
 Tie the other end tightly and ensure there's no leakage at both ends.
 Rinse the outside of the visking tubing with water
 Place the visking tube in a 100ml beaker containing distilled water.
 Allow the set-up to stand for at least 30 min.
- a) Test for the food substance in the liquid outside the visking tubing using iodine solution and Benedict's solution (6 mks)

Test	Procedure	Observation	Conclusion

Using 2ml of the contents in the visking tubing in each case test for food substance using Iodine and Benedicts solution. (2 mks)

Test	Procedure	Observation	Conclusion

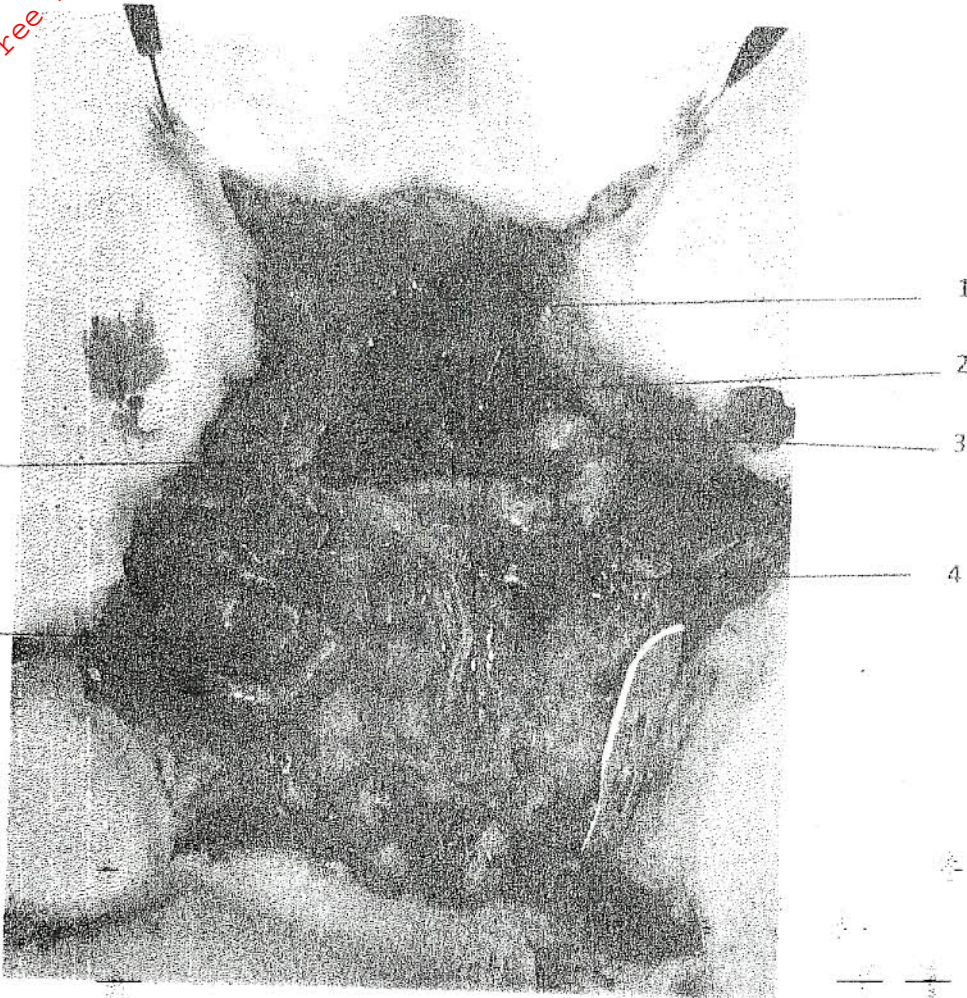
c) Account for your results in (a) and (b) above.

(3mks)

a)

b)

2. Below is a photograph of a dissected mammal. Examine it carefully.



a) Name the parts labeled .

(5 mks)

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____

b) On the diagram, label the:

(2 mks)

i) Rectum (Use Letter Z)

ii) Region where emulsification of lipids takes place (use letter X)

c) i) Name the sex of the mammal in the photograph.

(1 mk)

ii) Give a reason for your answer

(1 mk)

d) State the function of part labeled 6.

(1 mks)

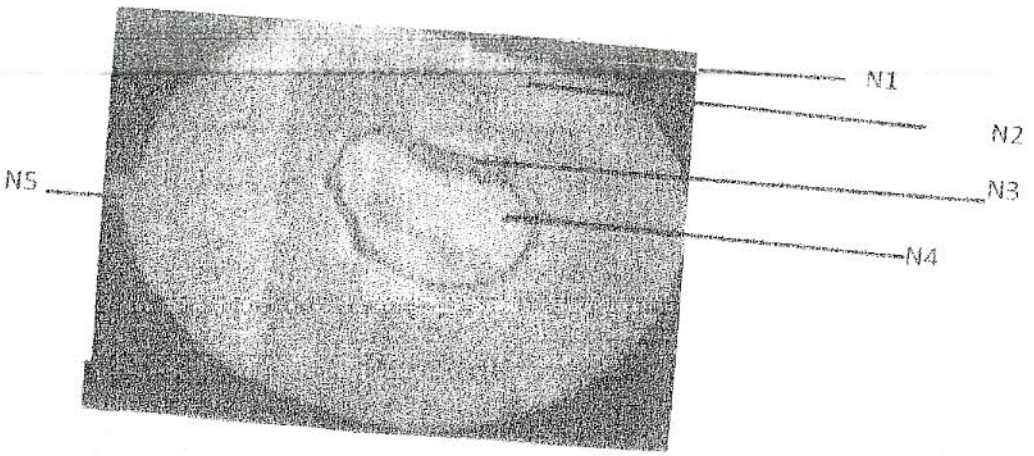
e) The actual length of the scapel in the photograph is 5.9cm.

Calculate the total magnification of the mammal in the photograph.

(2 mks)

3. Spacemen N and S have been cut longitudinally and photographs of the cut surfaces taken. Study the photographs and answer the questions that follow.

PHOTOGRAPH N



PHOTOGRAPH S

