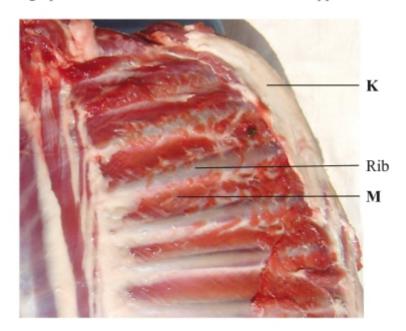
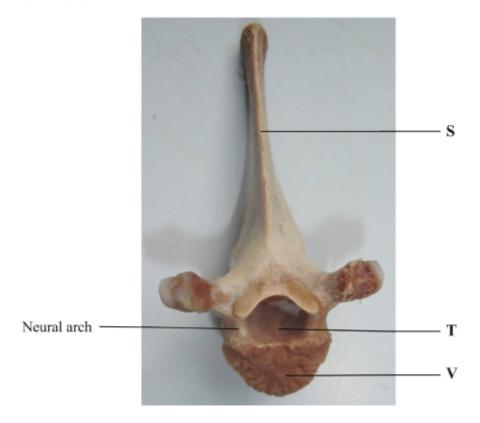
3.4.3

Biology Paper 3 (231/3)
(a) The photograph below shows the inner surface of the upper left side of the rib cage.



- Name the bone covered by the fatty tissue labelled K. (i) (1 mark)
- Explain the role of the part labelled ${\bf M}$ in inhalation. (5 marks) (ii)
- (b) The photograph below shows a mammalian vertebra.

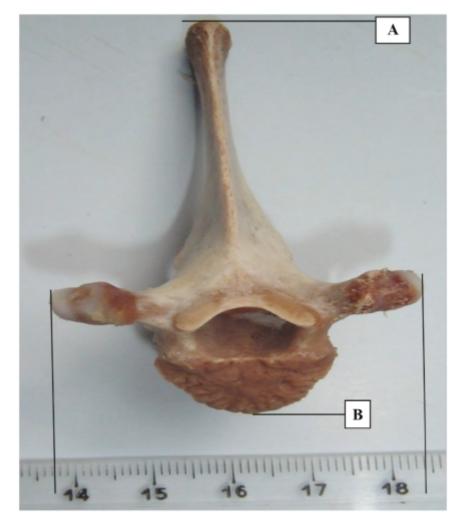


State the view of the vertebra presented. (1 mark) (i)

(ii	i)	Name an	id state one	function of	the	part labe	lled T
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Name		(1 mark)
Functi	on	(1 mark)
(iii)	How are the parts labelled ${\bf S}$ and ${\bf V}$ adapted to their functions?	(4 marks)
S		
v		

(c) The actual width of the vertebra below in cm is shown by a section of the ruler in the photograph.



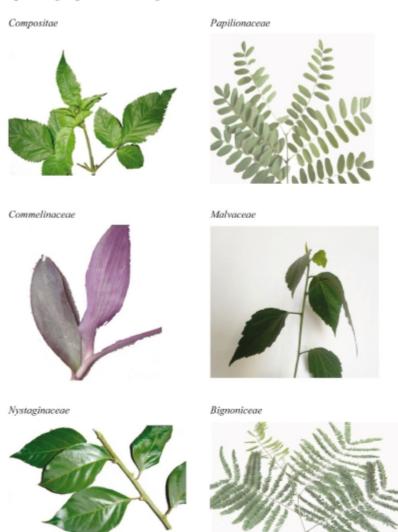
- (i) Determine the width of the vertebra on the photograph. (1 mark)
- (ii) Calculate the magnification of this image. (2 marks)
- (iii) Determine the actual length of the vertebra from point A to B. Show your working. (2 marks)

You are provided with a food sample labelled solution C. Using the reagents provided, carry out tests to identify the food substances present in the sample.

TEST FOR	PROCEDURE	OBSERVATION	CONCLUSION
Reducing sugars			
2. Non- reducing sugars			
3. Proteins			

(12 marks)

3 Below are photographs showing some observable features of leaves.



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Using the features in the order given below, construct a dichotomous key that can be used to identify the specimens.

- simple or compound leaves;
- leaf venation;
- leaf margin;
- arrangement of leaves on the stem; pinnate or trifoliate nature of leaves.

(10 marks)