

GCSE Biology

Principles of Organisation

Question Paper

Time available: 25 minutes Marks available: 21 marks

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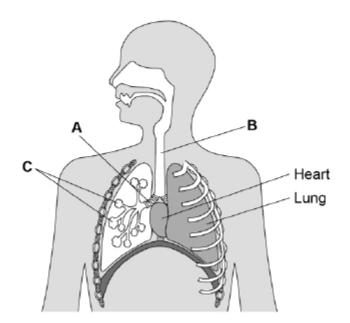
Animals and plants contain organs and tissues.

1.

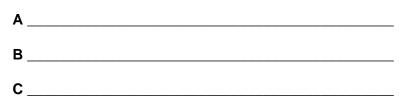


Figure 1 shows some organs in the human thorax.





(a)	Name parts A, B and C).
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(b) Which organ system is the heart part of?

Tick **one** box.

Breathing system	
Circulatory system	
Digestive system	
Excretory system	

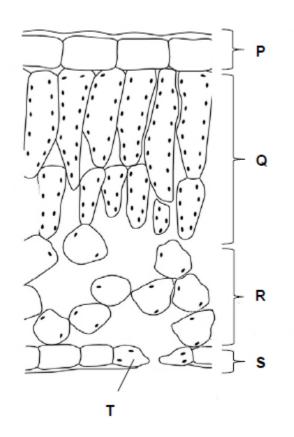
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(3)

Figure 2 shows a cross section of a leaf.







(c) In which part of the leaf does most photosynthesis take place?

Tick **one** box.



(1)

(d) What is part **T**?

Tick **one** box.

Guard cell

Phloem

Stoma

Xylem



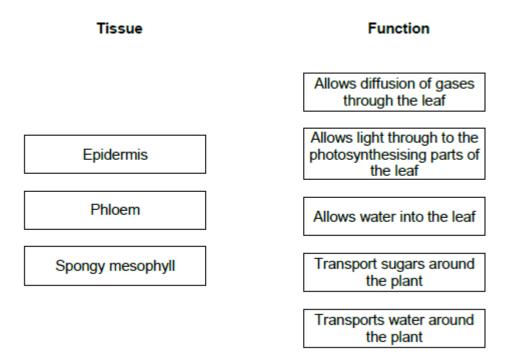
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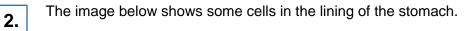
(1)

(e) A leaf is an organ made of tissues.

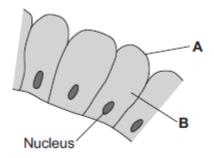
What is a tissue?

(f) Draw **one** line from each tissue to its function.









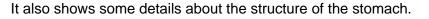
(a) (i) Use words from the box to name structures ${f A}$ and ${f B}$.

	cell membrane	chloroplast	cytoplasm	vacuole	
-	Α				
	В		_		(2)
ii)	What is the function of t	he nucleus?			(2)
	Tick (✔) one box.				
	To control the activities	of the cell			
	To control movement of	substances into and our	t of the cell		
	To release energy in res	spiration			
					(1)

(b) Draw **one** line from each part of the human body to its correct scientific name.

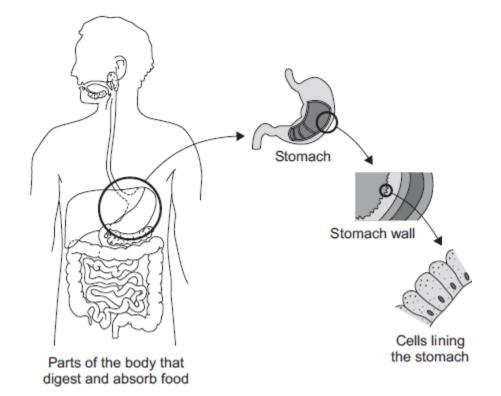


Part of human body	Scientific name	www.accesstuition.com
	An organ	
Layer of cells lining the stomach		
	An organism	
Stomach		
	An organ system	
Mouth, stomach, intestines, liver and pancreas		
	A tissue	
		(3)



3.





(a) Complete the table to show whether each structure is an organ, an organ system or a tissue.

For each structure, tick (\checkmark) **one** box.

Structure	Organ	Organ system	Tissue
Stomach			
Cells lining the stomach			
Mouth, oesophagus, stomach, liver, pancreas, small and large intestine			

(2)

(b) (i) The blood going to the stomach has a high concentration of oxygen. The cells lining the stomach have a low concentration of oxygen.

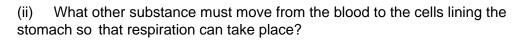
Complete the following sentence.

Oxygen moves from the blood to the cells lining the stomach by

the process of _____

.

(1)





Draw a ring around the correct answer.

	glucose	protein	starch		
				(1)	
(iii)) In which part of a cell does aerobic respiration take place?				
	Draw a ring around the correct answer.				
	cell membrane	mitochondria	nucleus		
				(1) (Total 5 marks)	