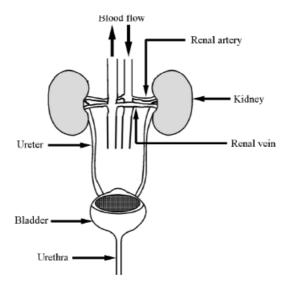
2nd Year Biology Revision Questions

The diagram is of the urinary system. Give the function of **five** of the six parts labelled. (15)



Kidney _

Renal vein ___

Ureter		
Why is blood considered to be	e a tissue?	
Why?		
Name a substance transported	by blood.	
Vame		

The photograph show a leaf of a green plant					
(i) Name a gas that me into and a gas that out of a green leaf active photosynthe	moves during				
Gas in					
Gas out					
(ii) Outline	an experiment to	show that ph	otosynthesis prod	luces starch.	I
Use the	box provided fo	r an optional l	abelled diagram.	(18)	
					_
					-
	 				
			 		

Without enzymes we would not be able to exist. Enzymes release energy f food, help build the molecules that our bodies are composed of and break down structures and wastes that we no longer need.	rom
(i) Name an enzyme.	(3)
Name	
(ii) Name the substrate that the enzyme you have named acts on.	(3)
Name	
(iii) Name the product of the action of this enzyme.	(3)
Name	
(iv) What reagent might you use, in a laboratory, to test that the reaction hat taken place?	as (3)
Name	
(i) Name one other food from level B .	Crisps A eat, Fish B
Food	eese, Yoghurt
(ii) What is the distant reason why	ereals, Potatoes
Why?	
Complete the word equation for photosynthesis.	

_____+ oxygen

carbon dioxide +

The diagram shows the inside of a human mouth. Give the name of tooth type ${\bf A}$.

Name	
What is the function of tooth type B ?	
Function	
(a) The simplified diagram shows the flow of blood through the lungs, heart and the	
rest of the body. (i) Name the blood vessels Capillaries of lungs	
labelled A and B. (6)	A
A	İ
Capillaries are small blood vessels.	ļ
(ii) Describe two changes in the composition of blood after it has passed through the capillaries	
of the lungs shown. (6)	
	_
2	
What feature of capillaries allows these changes to happen? (3)	
(iii) Name the chamber of the heart that pumps blood to the lungs. (3)	

Name two waste products that are excreted by our ki	dneys.
One	
Two	
A plant in an otherwise dark room bends towards the light from a window. (i) What is the growth response of a plant to light called? What? (ii) What benefit does the plant get from this	
response? What?	
The diagram shows the internal structure of a human lung. There are about 350 million alveoli per lung. Describe clearly the exchange of gases that occur between the air in the alveoli and the bloodstream. Describe	Alveolus
The diagram of the human digestive system has been (i) What is digestion? What?	simplified for clarity. (3)
(ii) Why is digestion necessary?	(3)

Why? ____

(iii)	Name the <i>organs</i> labelled A and B . (6)	
	Organ A	
	Organ B	
(iv)	Give one function of the stomach. (3)	A Stomach
	Give	A D A B
		Large
(v)	Give one function of the large intestine. (3)	
	Give	
varieg	liagram shows a plant with gated leaves i.e. the leaves have	
of this	with different colours. The leaves s plant have a green centre with	Pale yellow
in an	vellow margins. This plant was used experiment to investigate the action of starch by photosynthesis.	
-		Green
i	Why was the plant left in darkness for a day at	
	the start of the experiment? (3)	
	Why?	
-		
	The plant was then exposed to bright light for leaf was removed and boiled in water for a f	
,	Why was the leaf boiled in water?	(3)
,	Why?	

(iii)	Draw a labelled diagram, in the box, showing the apparatus and named liquid used to remove the green pigment from the leaf. (6)	
(iv)	The leaf was finally covered with a solution that turned the area which was previously green to blue-black while the leaf margins did not turn blue-black. Name the solution used. (3)	
	Name	
(v)	Suggest a reason why the leaf marg	
of gree	two processes that the leaves en plants carry out.	
Name (ii) Giv	we the <i>organ</i> shown in the diagram. We the <i>function</i> of the organ shown.	

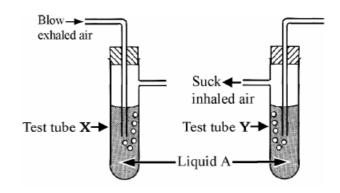
Label clearly the *pulmonary* artery with an $\underline{\mathbf{A}}$, and the *pulmonary* vein with a $\underline{\mathbf{V}}$ in the diagram of the heart.



The diagram shows the apparatus used by a pupil when performing an experiment in a school laboratory.

The pupil blew (exhaled) air into test tube X.

The pupil sucked (inhaled) air from test tube **Y**.



The pupil continued, alternately, blowing and sucking air, as above, until *liquid* A in *one* of the test tubes *turned milky*.

(i) Name liquid A.	(3)
Name	
(ii) In which test tube, X or Y, did the liquid turn milky?	(3)
Which?	
(iii) Why did liquid A turn milky in one of the test tubes?	(3)
Why?	
(iv) What conclusion can be made from the result of this experime regarding the difference in composition between exhaled and air?	
Conclusion?	
(v) Complete the word equation, below, for aerobic respiration.	(6)
Food + + ener	rgv + water