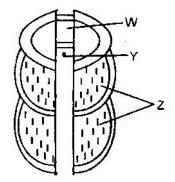
GASEOUS EXCHANGE

PAST KCSE QUESTIONS ON THE TOPIC

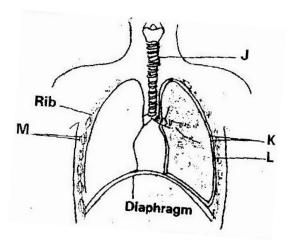
1.	Discuss how gaseous exchange occurs in						
	a)	Terrest			(9mks)		
	b)	Bony f	sh			(11mks)	
2.	a)	Explai	Explain how mammalian lungs are adapted for			gaseous exchange.	
						(8mks)	
	b)	Describe how carbon dioxide is produced by					
		i)	Respiring muscle cells rea	ches the alveolar	cavities	in	
			mammalian lungs.				
		ii)	Respiring mesophyll cells	of flowering plan	its reach	nes the	
			atmosphere.		((12 mks)	
3.	a)	Descri	be the path taken by carbor	n dioxide released	from th	ne tissues	
		of an i	sect to the atmosphere.				
	b)	Name	wo structures used for gas	eous exchange in	plants.	(2mks)	
4.	Why a	are gills	n fish highly vascularized	?		(1mk)	
5.	Descri	Describe the					
	a)	Process of inhalation in mammals. (10		(10 ml	ks)		
	b)	Mecha	Mechanism of opening and closing of stomata (10		(10 ml	ks)	
6.	Nan	Name three sites where gaseous exchange takes place in terrestrial plan				al plants.	
				(3mks	(3mks)		
7.	How is aerenchyma tissue adapted to its function? (2mks)					(2mks)	
8.	The diagram below represents a part of the rib cage.						



- a) Name parts labeled W, Y and Z.
- b) How does the part labeled Z facilitates breathing in? (1mk)
- 9. State two ways in which floating leaves of aquatic plants are adapted to gaseous exchange. (2mks)
- 10. a) Name two structures for gaseous exchange in aquatic plants.

(2mks)

- b) What is the effect of contraction of the diaphragm muscles during breathing in mammals? (3mks)
- 11. The diagram below represents some gaseous exchange structures in humans.



- a) Name the structure labeled K, L and M (3mks)
- b) How is the structure labeled J suited to its functions? (3mks)

	c)	Name the process by which inhaled air moves from the structure						
		labeled L into blood capillaries.	(1mk)					
	d)	Give the scientific name of the organism that causes tuberculosis in						
		humans.	(1mk)					
12	State th	hree factors that make alveolus adapted to its function.	(3mks)					
13.	Explain how the alveoli are ventilated.							
14.	Explain why water logging of the soil may lead to death in plants. (2mks)							
15.	Write t	three advantages of breathing through nose than through mo	uth.					
			(3mks)					
16.	State a	nd explain ways the leaves are adapted for gaseous exchange	e					
		(4mks)	ı					
17.	Name three gaseous constituents involved in gaseous exchange in pla							
			(3mks)					
18.	Name	three sites of gaseous exchange in frogs.	(3mks)					
19.	Name the main site of gaseous exchange in							
	a)	Mammals						
	b)	Fish						
	c)	Leaves						
	d)	Amoeba	(4mks)					
20.	Name the physiological process by which gas exchange takes place at the							
	respira	tory surface in animals and plants	(1mk)					