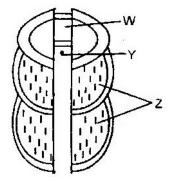
GASEOUS EXCHANGE

8.

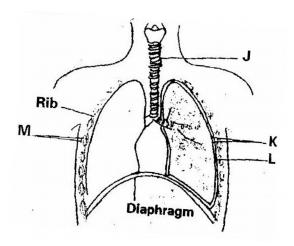
1.	1. Discuss how gaseous exchange occurs in				
	a)	Terrestrial Insects	(9mks)		
	b)	Bony fish	(11mks)		
	2.	a) Explain how mammalian lungs are ada	apted for gaseous exchange.		
			(8mks)		
	b)	Describe how carbon dioxide is produced by			
		i) Respiring muscle cells reaches the alveo	lar cavities in		
		mammalian lungs.			
		ii) Respiring mesophyll cells of flowering p	plants reaches the		
		atmosphere.	(12 mks)		
3.	3. a) Describe the path taken by carbon dioxide released from the tissues				
		of an insect to the atmosphere.			
	b)	Name two structures used for gaseous exchange in plants. (2mks)			
4.	Why ar	e gills in fish highly vascularized?	(1mk)		
5.	Describ	Describe the			
	a)	Process of inhalation in mammals.	(10 mks)		
	b)	Mechanism of opening and closing of stomata	(10 mks)		
1. N	ame three	e sites where gaseous exchange takes place in terre	estrial plants.		
		(3mks)			
7.	7. How is aerenchyma tissue adapted to its function? (2mks)				
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	ree 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 pla	ants. (2mks)		
15.	Write th	Write three advantages of breathing through nose than through mouth.			
			(3mks)		
16.	State and explain ways the leaves are adapted for gaseous exchange				
		(4mks)			
17.	Name th	Name three gaseous constituents involved in gaseous exchange in plants.			
			(3mks)		
18.	Name th	nree 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				
resp	respiratory surface in animals and plants (1mk)				