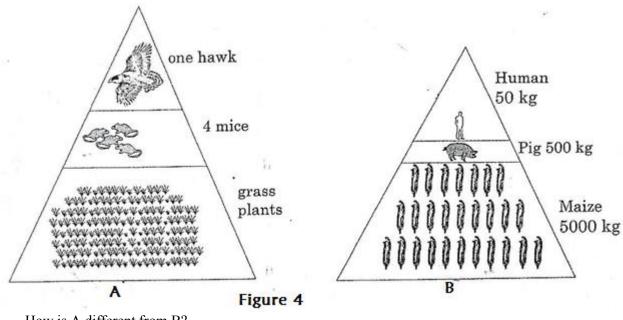
Section A (20 Marks)

a.	What is respiration.	
b.	Give any two importance of gaseous exchange in your body.	(1 mark)
c.	What is carbon monoxide poisoning?	(2 marks)
d.	State any two ways of preventing carbon monoxide poisoning	(1 mark)
Gi	ve any two factors that affect human population growth in Malawi	(2 marks)
		(2 marks)
Fig	gure 1 is a diagram showing the internal structure the heart.	
	R Figure 1	
a.	Name the parts labelled S and T ST_	(2 marks)
	b. c. d. Fig	b. Give any two importance of gaseous exchange in your body. c. What is carbon monoxide poisoning? d. State any two ways of preventing carbon monoxide poisoning Give any two factors that affect human population growth in Malawi Figure 1 is a diagram showing the internal structure the heart.

	i. The left ventricle is more muscular than the right ventricle wal	
	ii. The heart has valves	(1 mark)
	II. The heart has valves	
4.	Figure 2 shows types of the lymphocytes in a flow diagram. Use it questions that follow.	(1 mark) it to answer the
	B-Lymphocyte	
	Lymphocyte	
	Figure 2	
a.	Name the lymphocytes X	(1 mark)
b.	State the difference between "B-lymphocytes" and "X"	(1 mark)
		(1 mark)
	Explain what happens if lymphocyte X has been weakened by HIV	(,
		(2 marks)
5.	a. Give any one function of the liver	
٥.		(1 mark)
	b. State any one problem associated with the digestive system	
	c. Explain any one adaptation of the small intestines to their functions	(1 mark)
		(1 mark)
	Section B (60 Marks)	
6.	a. what is excretion?	
υ.	u. What is excitation:	
		(1 mark)
	b. What is the difference between egestion and excretion?	

	c.	Descri	be the two stages involved in the formation of urine by the nephron	(2 marks)
	d.	Discus	ss the role of ADH in the control of water balance in the body	(4 marks)
				(2 marks)
7.	a. v		e the following human reproductive organs important	
		i.	Ovary	(1 mark)
		ii.	Testis	(1 mark)
	b.		B Shelow shows a developing human foetus inside the womb C amnion Figure 3	
		i.	Name the parts labeled B and C B	(1 mark)
		ii.	CState two roles played by the part marked A during the develor foetus	(1 mark) pment of the
				(2 marks)
		-	e the following hormones important during menstruation Oestogen	(1 mark)

ii. Progesterone	(1 mark)
8. a. Describe the modes of transmission of the following diseases	
i. Tuberculosis	
	(I mark)
ii. Cholera	
iii. Ringworms	
	(1 mauls)
b. i. What causes Cholera?	(1 mark)
b. i. What causes Cholera?ii. Give any two ways how Cholera can be prevented	
	(2 marks)
9. a. Define variation	
	(1 mark)
b. State any two causes of variation	, ,
i	
ii	
	(2 marks)
c. Distinguish between	
i. continuous and discontinuous variation	
	(2 1)
	(2 marks)
ii. complete and incomplete dominance	
	(2 marks)
d. State any one disorder in human caused by gene mutation	(2 marks)
,	(1 mark)
10. a. What is the meaning of an ecosystem?	(1 mark)
10. d. What is the meaning of an ecosystem:	
	(1 mark)
b. How are the following adapted to terrestrial communities?	
i. xerophytes	
1	
2	(2 marks)
::	
ii. mesophytes	
1	(2 maulta)
c. Study the figure 4 and use it to answer the questions that follow	(2 marks)
c. Study the figure 4 and use it to answer the questions that follow	



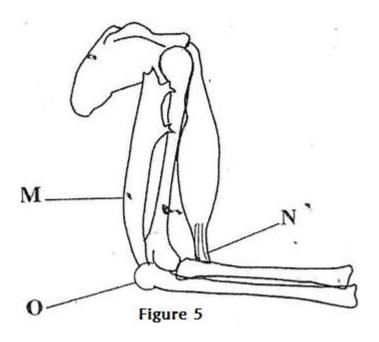
i. How is A different from B?

(1 mark)

ii. Apart from the triangular shape, how is A similar to B?

(1 mark)

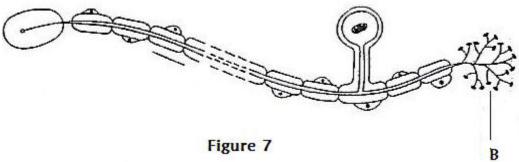
11. **Figure 5** below shows muscles and joints of the human arm. Use it to answer the questions that Follow.



a.	Name the parts marked M and N M N	(2 marks)
b.	State one adaptation of the part marked N to its function	
c.	What type of a joint is found at O	,
d.	Explain how bending of the lower arm occurs	(1 mark)
		(3 marks)
12. Fig	gure 6 below shows part of the human digestive system. Use to answer th	e questions that follow:
a. b.	H Figure 6 Name the parts marked F and G. F State two observable adaptations of part marked H to its function.	(2 marks)
c.	State any one function of part marked I.	(4 marks)
		(1 mark)
13	. a. What are neurons?	

(1 mark)

b. The diagram below shows a neuron. Use it to answer the question that follows:



		L.
	Figure 7	В
i.	What type of a neurone is shown in the diagram	
		(1 mark)
ii.	Give the function of the part labeled B	
		(1 mark)
c.	Name any other two types of neurones apart from the one in figure above	(1 mark)
		(2 marks)
14. a.	List any two common effects of cancerous cells in the body	
		(2 marks)
b.	How can a person increase the risk of cancer in his/her body?	(2 marks)
	(i)	
	(ii)	(2 marks)
	Section C (20 Marks)	
		_

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10 marks
16. Describe an experiment that could be conducted to show that germinating bean seeds contain an enzyme that digests starch. Your answer should include procedure, expected results and conclusion.

10 marks