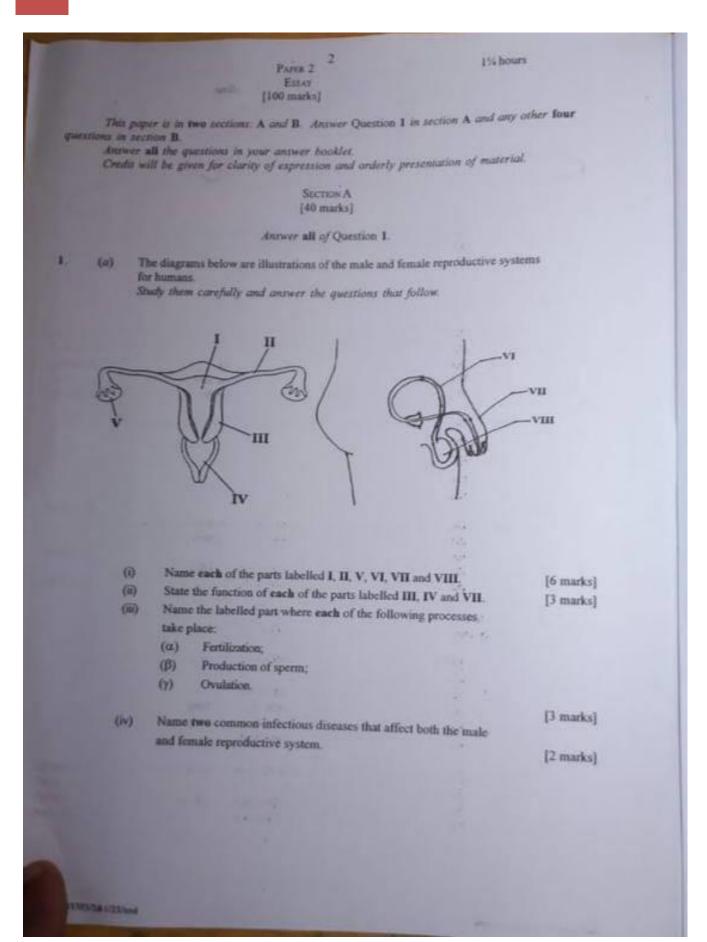
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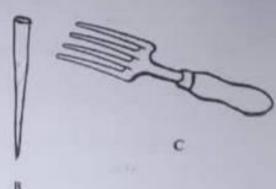
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(b) The diagrams below are illustrations of different devices used in the farm.

Study them curefully and answer the questions that follow.





(i)	Give a common name for the devices illustrated.	[1 mark]
(ii)	Name each of the devices labelled A, B and C.	[3 marks]
(iii)	State one use of each of the devices named in (ii).	[3 marks]
(iv)	State two effects of the use of the device C on the soil.	[2 marks]
(v)	State two ways of prolonging the usefulness of the device labelled A	[2 marks]

- (c) (i) Draw the symbols for each of the following electronic components:
 - (a) Resistor;
 - (β) (p-n junction) diode;
 - (y) Cell:
 - (δ) Light Emitting Diode/LED.

[4 marks]

- (ii) Use the symbols drawn in (i) together with a switch to draw a circuit diagram to demonstrate forward biasing of a (p-n junction) diode and the light emitting diode.
- (iii) State the effect of the resistor on the (p-n junction) diode and the light emitting diode when the circuit is closed.

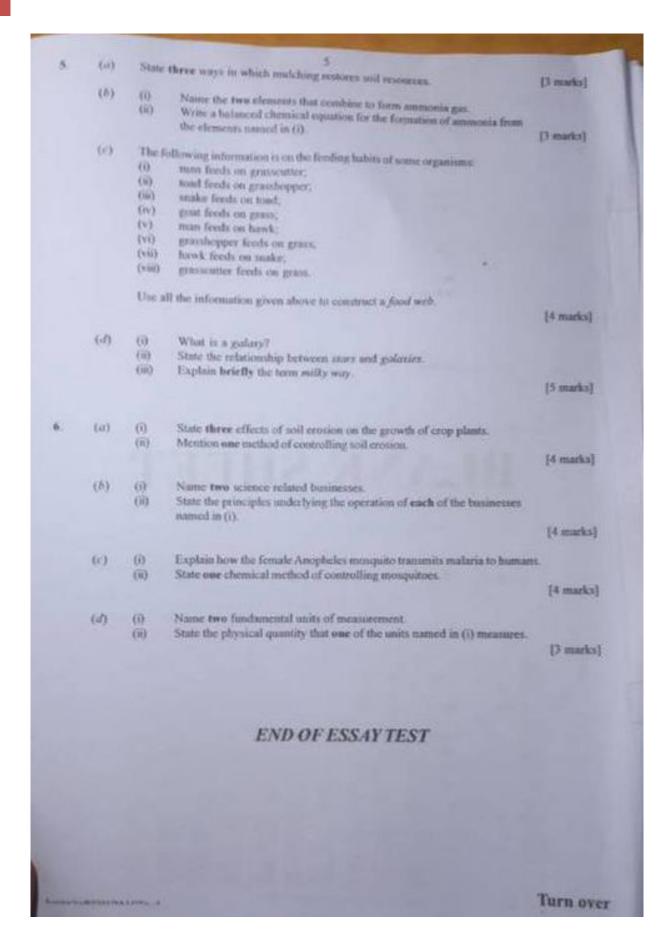
[3 marks] [2 marks]

- (d) The following activities were carried out in the laboratory. Study them carefully and answer the questions that follow.
 - 10 g of iodated salt was added to 150 ml of water in a beaker. The mixture
 was stirred thoroughly.
 - Vegetable oil was added to a quantity of water in a corked flask and shaken vigorously then allowed to stand for some time.
 - III. Few grams of grinded charcoal was added to water in a beaker and stirred vigorously and then allowed to stand.

(i)	State what will be observed in each of the activities I, II and III.	[3 marks]
(ii)	Suggest an aim for the experiment.	[1 mark]
(iii)	State one difference between what is observed in I and III.	[I mark]
424.0	State a method of sensingtion for the activity carried out in 11	1000000

		Section B	
		[60 marks]	
	Answer four que	tions only from this section.	
(a)	(i) What is the importance	of a fuse in an electrical appliance?	
	(ii) State two household app		[4 marks]
(6)	(i) What is teenage pregni	market?	T- mark?
	(ii) State two causes of teer	tage pregnancy.	
			[# marks]
(c)	State three precautions against	hazards.	[3 marks]
(d)	(i) State two practices that	destroy water bodies	
	(ii) Give two methods of cor		[4 marks]
(a)	(i) What is aerobic respire	tion?	
		ce between aerobic respiration and anaerobic	
	respiration.		12
			[3 marks]
(b)	(i) Explain the term potent	ial difference.	
	(ii) The potential difference	across the terminals of a 100Ω resistor is $250 V$	
	Calculate the current flor	wing through the resistor.	G -200
			[5 marks]
(c)	(i) Which crop is infected b	y the Swollen Shoot disease?	
	(ii) State the causative organ (iii) State the method of spre	ism of the disease.	
	CONTRACTOR OF THE PROPERTY OF	nting the spread of the disease.	
	The Control of the Co	ming an aprent of the disease.	[5 marks]
(d)	Complete to 7	20,,	
(11)	Consider the given elements: 3	X and ²⁰ ₉ Y	
	(i) Write the electron config	uration for Y;	
	(ii) State the possible ion that	t could be formed by X to make it more stable.	
			[2 marks]
(a)	What is a neutralization reaction	w7:	[2 marks]
(b)	State three physical properties of	a soil	[3 marks]
COV.	(i) Define the term power.		makaj
(c)		ing case of mass 50 kg up a building that	
	is 10 m high in 30 s, calcu	ilate the power of the machine	
	{g = 10 m s ⁻² }		
			6 marks]
	and the second s	y is used for the benefit of humans.	Marie Contract Contra

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or the			
		Section B	
		[60 marks]	
		Account four questions only from this section.	
		a material appliance:	
2	(4)	(i) What is the importance of a fuse in an execution fuse	[4 marks]
		(ii) State two household appliances that have fuse.	
	(6)	(i) What is teenage programs?	
		(8) State two causes of teenage prognancy.	[4 marks]
			[3 marks]
	(0)	State three precautions against hazards.	
	(4)	(i) State two practices that destroy water bodies	74 market
	377.6	(6) Give two methods of conserving water hodges.	[4 marks]
5.11			
3.	(a)	(i) What is aerobic respiration?	
		(ii) Store the main difference between acrobic respiration and amacrobic	
		respiration	[3 marks]
			100000
	(6)	(i) Explain the term potential difference.	
		(iii) The potential difference across the terminals of a 100 Ω resistor is 250 V	
		Calculate the current flowing through the resistor.	
			[5 merks]
	400		
	(c)	(ii) Which crop is infected by the Swotlen Shoot disease?	
		(ii) State the canastive organism of the disease. (iii) State the method of served of the disease.	
		The Control of the Co	
		(iv) Give two ways of preventing the spread of the disease.	[5 marks]
			12 meraj
	(d)	Consider the given elements: ⁷ ₁ X and ²⁰ ₀ Y	
		Write the electron configuration for Y:	
		(ii) State the possible ion that could be formed by X to make it more stable.	
			[2 marks]
4.	(4)	What is a neutralization reaction?	
			[2 marks]
	(6)	State three physical properties of a soil.	100
	200		[3 marks]
	(c)	(i) Define the term power.	
		(ii) If a machine hauls a packing case of mass 50 kg up a building that	
		The same to the same that the same to the	
		{g = 10 m s ⁻² }	
	(4)	State four areas where technology	[6 marks]
	SEE A	State four areas where technology is used for the benefit of burnans.	Tell line a
			[4 marks]