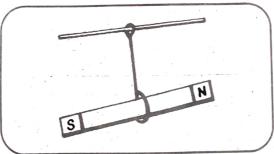
Section A (40 Marks)

- 1. Name the *hardest part* of a tooth.
- 2. Which force makes some objects to weigh less when put in water?
- 3. Apart from femur, give one other example of a long bone.
- 4. State the best way a school going pupil can avoid contracting HIV.
- 5. Give one way in which water can be used as an energy resource.
- 6. Why are handles of frying pans made of insulators?

The diagram below shows a property of magnets. Use it to answer questions 7 and 8.



- 7. Name the property of magnets shown in the diagram above.
- 8. How does the property named in (7) above simplify the work of a pilots?
- 9. State one role of saliva during digestion of food.
- 10. Apart from water, name <u>one</u> other condition necessary for germination to take place.
- 11. State the energy change that occurs in a dry cell when the circuit is complete.
- 12. How are amphibians similar to fish in terms of reproduction?
- 13. State the main reason why farmers rear Angora goats.
- 14. How is moulting important to an insect?

15. Why can't distilled water conduct electricity? 16. Mention one element of P.H.C that is promoted by bathing. 17. Name one delicate body organ that is protected by the rib cage. The diagram below shows a method of making water clean. Use it to answer questions 18 and 19. funnel Cotton wool 18. Name the method of making water clean shown in the diagram above. 19. What scientific name is given to liquid marked B? 20. Give the role of testis in male mammals. 21. Musa usually lacks proteins in his diet, what deficiency disease is he most likely to suffer from? 22. How can people protect their buildings from effects of lightning? 23. Give a reason why water is called a universal solvent. 24. State the use of a broom in a home. Apart from drinking clean boiled water, how else can one prevent the spread 25. of polio? Give one characteristic of arthropods. 26. Mention the type of soil used for making glasses.

27.

Where does respiration occur in the human?
Give a reason why solar panels are made of a black surface.
How do houseflies spread disease causing germs?
Use the diagram of a root system below to answer questions 32 and 33.
Root cap
Name part marked R from the diagram shown above.
Mention any one plant with such kind of roots shown in the diagram above
Apart from alcohol, name one other liquid used in thermometers.
In which way do tape worms enter into the body of human beings?
How does crop rotation control crop pests in the garden?
Name the food value got from eating honey?
Why is the hutch made of wire mesh?
State <u>one</u> role of a child at home.

questions that follow.
The diagram below shows a method of magnetization. Use it to answ
questions that follow.
questions that follow.
(a) Name the method of magnestization shown in the diagram above
(b) What will pole marked K be after magnetization?
(c) State <u>two</u> ways of increasing the strength of the magnet shown in diagram above. (i)
(ii)
Give any <u>two</u> principles of P.H.C.

(ii) family

Match the items in A to those in B correctly. 44. measures humidity. Wind vane measures speed of wind. Barometer shows the direction of wind. Anemometer measures air pressure. Hygrometer Wind vane Barometer Anemometer Hygrometer (a) Write down any two items that can be used in reducing the spread of 45. COVID 19 in the community. (i) _____ (b) Give two ways of preventing the spread of COVID 19. (ii) 46. (a) Write e.m.f in full. (b) Calculate the total e.m.f of 4 drycells if one drycell has 1.5v. (03 marks) The diagram below shows a method of making alcohol. Study it carefully and 47. use it to answer the questions that follow. Crude alcohol Heat cold water (a) Name the processes marked Y and X. (i) X: (ii) Y:

	c) State the use of cold water in the above process.
-	a) Apart from animals, give two other examples of renewable energy
	resources.
i)(ii)
(k	o) State two ways of conserving animals as energy resources.
(
	ii)
	a) Mention any two agents of pollination.
	i)
(i)
(b) Why are petals of bean plants brightly coloured?
	nollination?
(c) How is a pawpaw plant naturally adapted to cross pollination?
_	
_	the subsection of the subsecti
(a) What piece of advice can you give to a mother whose child is dehydrated
_	- Lildren
((b) State <u>two</u> possible causes of dehydration among children.
	(i)
	(ii)
	(c) Write any <u>one</u> mineral salt that is deficient in a dehydrated person.
,	The diagram below shows a joint in the human body. Study it carefully to
	answer the questions that follow.
	T muscle
	Y
	(a) Name the type of movable joint shown in the diagram above.
74	(a) Name the type the
	(b) State the role of the parts marked T and Y.
	(b) State the role of the parts marked T and Y.(i) T:

(i)	ny <u>two</u> devices that	can be used to store sound.	
(b) In which o	one way can echoe	s be reduced in cinema halls?	
(c) Moses mo	ves by boat every	day, how are echoes useful to him?	
(a) Mention ar	ny <u>two</u> examples of	vulnerable groups of people.	
(b) Why is Ter	tanus Toxoid Vacc	ine given to pregnant women?	,
(-) A1 1			
(c) At what ag	e is weaning done	in babies?	
(a) In which se	eason do farmers pl	ant most of their crops?	
		ant most of their crops?	
(b) Name <u>two</u>	examples of root t	ubers.	
(b) Name <u>two</u>	examples of root t	ubers. (ii)	
(b) Name <u>two</u>	examples of root t	ubers.	
(b) Name <u>two</u>	examples of root t	ubers. (ii)	
(b) Name <u>two</u> (i) (c) State <u>one</u>	examples of root t	ubers. (ii) oot tubers in the garden.	to an
(b) Name <u>two</u> (i) (c) State <u>one</u>	examples of root to way of caring for root to way shows different	ubers. (ii)	to an
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(b) Name two (i) (c) State one The table below he questions Group A Conifers a) How are place	examples of root to way of caring for root t	ubers. (ii) out tubers in the garden. plants. Study it carefully and use it Group C Liverworts Ferns ilar to those in group C?	
(b) Name two (i) (c) State one (he table below he questions Group A Conifers (a) How are place (b) Mention any	examples of root to way of caring for root t	ubers(ii) out tubers in the garden. plants. Study it carefully and use it Group C Liverworts Ferns	