STEM EXAMINATIONS BOARD

PRE-PRIMARY LEAVING EXAMINATION SET 1, 2022 INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

7	Random	No.		Pers	onal	No.
1						

Candidate's Name:	
Candidate's Signatu	re:
District ID No:	

Read the following instructions carefully:

- Do not write your school or district name anywhere on this paper.
- This paper has two sections: A and B. Section A has 40 questions and Section B has 15 questions. The paper has 8 printed pages altogether.
- Answer all questions. All answers to both Sections A and B must be written in the spaces provided.
- All answers must be written using a blue or black ball point pen or ink. Any work written in pencil other than graphs and diagrams will not be marked.
- Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
- Do not fill anything in the table indicated: "For Examiners' Use Only" and boxes inside the question paper.

The second second	EXAMI USE ONI	Chicken and a second
Qn. No.	Marks	EXR'S NO.
1-10		
11 - 20	10000	AR SOUTH VALUE
21 - 30		Mary Mary
31 - 40	1	
41 - 43		
44 - 46	7/19/08	100000000000000000000000000000000000000
47 - 49	proll.	
50 - 52	1986	
53 - 55	1000	,
TOTAL	OA	

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1.	Name any one petroleum product in the environment.
2.	How do tsetse flies spread diseases among human beings?
3.	Name the energy change which occurs when a rolling ball comes to rest.
4.	Give one way of earing for the human body organs.
5.	Which fungal disease in human beings is prevented by wearing clean and dry stocking
6.	Why do long strings of a guitar produce low pitched sound?
7.	Give one way human beings keep their bodies warm during cold weather.
8.	Which system do most poultry farmers in rural areas use to keep poultry?
9.	Why do humans use soft materials to remove wax from their ears?
10.	Give one way plants depend on other plants in the environment?
11.	How does covering prevent food from going bad?
12.	Write down one example of arachnids.
13.	Give one effect of accidents to the human body.
14.	State any one substance which allows electric current to pass through.
	The diagram below shows a blood cell. Study and use it to answer questions 15 and 16. Cell membrane
	2000 A
5.	Name the part marked A on the diagram above.

16	What is the role of the blood cell shown in the diagram above?
-	The state of the s
17.	How do toads reproduce?
18.	Apart from centigrade scale, give one other scale used for measuring temperature.
	The service service of the one of the service of th
19.	Why do we tie the tourniquet on the upper part of the bitten part?
	The state of the requirement of the opposite of the state
20.	Write down one benefit of agroforestry in the environment.
21.	Give one type of bees in a hive.
22.	Write down any one use of plants in the environment.
	The illustration below shows an experiment carried out in a class. Study and use it to
	answer questions 23 and 24.
	Wax
	A Nail
	Nail
	Burning candle
23.	How does heat from the candle reach wax N in the diagram above?
40.	now does near now —
24	What happens to the temperature of the nail when heated as shown in the diagram
24.	
	above?
	Give one way of controlling common sicknesses in homes.
25.	Give one way of condoning common steamers in names.
	The diagram below shows a magnet. Study and use it to answer question 26.
	The diagram below shows a magnet. Study und use it to diswer question 26.

26.	Name the magnet shown in the diagram above.
	Which type of germination occurs in millet seeds?
27.	Which type of germination occurs in the second seco
28.	Write down one type of disability among human beings.
200	
29.	Give one reason why urine should not be held for a long time in the urinary bladder.
	the second of th
30.	How are energy resources useful in the environment?

31.	Give one advantage of using second class levers.
32.	How is algae similar to bean plants?
	C. V. in and to miss floor on floor nests at school?
33.	Which type of pulley is used to raise flags on flag posts at school?
34.	What is the danger of taking less drugs at descript by health worker
54.	what is the danger of things of the second o
35.	Why does the rainbow usually occur in the morning and evening?
36.	Give one importance of fruit and seed dispersal in the environment.
	the state of the s
37.	State the benefit of smoking an ordinary latrine at home.
20	How does immunisation improve human body immunity?
38.	
	The diagram below shows the human lung. Study and use it to answer questions 39 and
	40.
	夏
	Lung
	NA CONTRACTOR OF THE PARTY OF T
39.	Give one waste product removed from the body by the human body organ in the
	diagram above,

	abov	e?
		SECTION P. CO. LAND DATE
		SECTION B: 60 MARKS (Questions 41 to 55 carry four marks each.)
		The state of the s
11.	(a)	Write down a group of mammals where baboons belong?
	(b)	How does a weaver bird benefit from its streamlined body?
	(c) (i)	Give two similarities between a weaver bird and a baboon.
42.	(ii). (a)	Why do sexually mature male adolescents experience wet dreams?
	(i). (ii).	At what stage during adolescence do human beings show sexual maturity? Give two signs of sexual maturity among female human beings. diagram below shows a working lantern lamp. Study and use it to answer question
		Glass Fire flame
43	. (a)	Name the fuel used in the above lantern lamp.
	(b)	
	(c	Give two kinds of energy produced by the working lantern lamp.
	1000	The state of the s

44.	(a) W	rite down two reasons	why all members of the community should participate in
		and seemed on office	7. Cractivinas
		THE THE PERSON OF THE PERSON O	
	200000000000000000000000000000000000000		
	11.2	TALE THE THE PRINCIPLES OF IS	DMary Health was
	(1)	ALL CONTRACTOR OF THE PARTY OF	Review a special control of the second contr
	7 11 June	NTT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	THE OI	agrain below shows an	object commonly seen in crop gardens. Study and use it to
	answe	r questions that follow.	
45.		Name the object shown	
	(b)	How does the object na	amed in (a) above control crop pests?
	(c)	Apart from the object a	above, give two other ways of controlling field pests.
	(i)		
	(ii)		
46	. (a)	What happens when po	ollen grains are deposited on the stigma?
	(b)	State the immediate re	sult of the union of an ovule and pollen grain.
	(c)	Give two characteristi	cs of flowers adapted to self pollination.
	(i)	. 4	
4	7. Mat	ch parts of the human e	ar with their uses in the table below.
		Part (s)	Use (s)
	(i)	Eye lashes	Refracts light rays to focus the image
	(ii)	Pupil de la	Trap dust and germs
	(iii) Convex lens	Transmits impulses to the brain
	(iv	Optic nerve	Allows light into the eye

48.	(ii) Pu (iii) Co (iv) O (a) N	onvex lens ptic nerve lame the condition caused by lack of the melanin in the human skin. low is sebum useful to the human skin?	
49.	(i) (ii)	Name the tool used to remove wool from sheep.	
	(b) 1	Why is shearing usually carried out during a dry season?	
	(i) (ii)	Apart from wool, give two other products got from sheep.	
	The d	Dry cell Switch Contact screw	
		K-O	-
50	(a) (i) (ii) (b) (c)	Name the parts marked; J	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND
5	1. (a) (b)	Name the oral Rehydration solution (ORS) locally made at home. Give the role of the following substances in ORS;	
	(i) (ii) (iii)	Sugar	

		nion plants regarded as adventitious?
	(b) Which part of the root	system protects the tip of a growing root against damage?
	(c) Give two types of root	systems in plants.
	(ii)	
	(a) What happens to food	in the mouth during digestion?
	(b) Which glands produce	
	(i) Teeth	llowing during digestion;
l.		aponents of the soil and their uses. Fill in the missing
	Component (s)	Use (s)
	(i)	Supplies plant nutrients
	Earthworms	AD.
		(ii)
		Enable seeds to germinate
	(iii)	Enable seeds to germinate (iv)
	(iii)	Enable seeds to germinate
5.5	Bacteria The diagram below shows follow. Nostril	parts of a fish. Study and use it to answer questions that Dorsal fin
5.5	(iii)	parts of a fish. Study and use it to answer questions that Dorsal fin P Led;
5.5	Bacteria The diagram below shows follow. Nostril Mouth R (a) Name the parts mark (i) P (ii) R	parts of a fish. Study and use it to answer questions that Dorsal fin P ted;
5.5	Bacteria The diagram below shows follow. Nostril Mouth R (a) Name the parts mark (i) P (ii) R (b) State the use of part	parts of a fish. Study and use it to answer questions that Dorsal fin P ted; marked Q to a fish.
5.5	Bacteria The diagram below shows follow. Nostril Mouth R (a) Name the parts mark (i) P (ii) R (b) State the use of part	Enable seeds to germinate (iv)

P.7 SCIENCE MARKING GUIDE PRE-PLE SET I, 2022

- 1. Petrol/diesel/oil/kerosene/tar.
- 2. By biting.
- Kinetic energy changes to potential energy.
- Performing regular physical exercises /feeding on a balanced diet /regular bathing /avoid drinking too much alcohol /having regular medical check up.
- S. Athlete's foot.
- 6. They have a large vibrating space.
- Wearing thick clothes /warming themselves on fire /keeping indoors.
- s. Free range system.
- To prevent the damaging of the eardrum.
- 10. Some plants use others as their habitats /
- provide support to other plants /tall trees provide shade to short plants /decomposed plant /leaves provide manure to other plants / get oxygen for respiration from other plants.
- [J. It prevents flies from depositing germs on the food.
- 12. Ticks /scorpions /spiders /mites.
- 13.Lead to death /loss of some body parts / fractures.
- 14. Wet wood /water /silver /carbon /copper / nickel.
- 15. Nucleus.
- 16. It protects the human body against infections.
- 17. By laying eggs.
- 8. Fahrenheit scale

- 19. To prevent poison from flowing to the
- 20. It provides double income to the farmer crops get shade from tall trees /animals get food from crops and trees /animals provide manure to crops and trees / animals get shade from trees.
- 21. Queen bee /drone bee /worker bec.
- 22. Source of food /herbal medicine /
 building materials /firewood /timber /
 charcoal /help in the formation of
 rainfall /provides shade /provides
 oxygen to animals and human beings.
- 23. By conduction.
- 24. It increases,
- 25. Feeding on a balanced diet /avoid sharing a living house with animals / proper disposal of rubbish /performing regular physical exercises /proper disposal of human excreta.
- 26. Compass needle magnet.
- 27. Hypogeal germination.
- 28. Mental disability /physical disability.
- To prevent discuses and disorders of the kidneys.
- 30. They enable man to produce energy / enable man to do work.
- 32. Both make their own food.

- the 33. Single movable pulley
- 34. It makes germs more resistant and the sickness becomes worse.
- 35. The sun is at an angle to the refracting surface.
- 36. Reduces overcrowding of plants in one place /enables plants to colonise new areas / increases chances of survival for plant species.
- 37. Reduces bad smell /kills flies.
- 38. It causes the body to produce antibodies against infections.
- 39. Water vapour /carbon dioxide
- 40. By diffusion.
- 41. (a) Primates.
- (b) It enables a weaver bird to overcome resistance in air during flight.
- (c) Both have backbone /are warm blooded /live in the bush.
- 42. (a) The testes produce sperms /production of sperms by the testes.
- (b) Puberty.
- (c)Production of ova /by ovaries / menstruation periods begin /development of ovaries.
- 43. (a) Paraffin /kerosene
- (b) It prevents fire flame from being blown by wind.
- (c) Heat energy light energy

P.7 SCIENCE MARKING GUIDE PRE-PLE SET I, 2022

- Petrol /diesel /oil /kerosene /tar.
- 10
- w Kinetic energy changes to potential energy.
- Performing regular physical exercises /feeding drinking too much alcohol /having regular on a balanced diet /regular bathing /avoid medical check up.
- Athlete's foot,
- 0 They have a large vibrating space
- Wearing thick clothes /warming themselves on fire /keeping indoors
- Free range system.
- To prevent the damaging of the eardrum.
- 10. Some plants use others as their habitats /
- provide support to other plants /tall trees provide shade to short plants /decomposed plant /leaves provide manure to other plants get oxygen for respiration from other plants.
- 11. It prevents flies from depositing germs on the
- 12. Ficks /scorpions /spiders /mites.
- 13. Lead to death /loss of some body parts / tractures.
- 14. Wet wood /water /silver /carbon /copper / nickel,
- 15. Nucleus.
- to. It protects the human body against infections.
- 17. By laying eggs.
- 18. Fahrenheit scale.

- 19. To prevent poison from flowing to the
- 20. It provides double income to the farmer provide manure to crops and trees / get food from crops and trees /animals crops get shade from tall trees /animals animals get shade from trees
- 21. Queen bee /drone bee /worker bee.
- 22. Source of food /herbal medicine / oxygen to animals and human beings. rainfall /provides shade /provides charcoal /help in the formation of building materials /firewood /timber /
- 23. By conduction.

24. It increases.

- 25. Feeding on a balanced dict /avoid sharing a living house with animals / proper disposal of rubbish /performing disposal of human excreta. regular physical exercises /proper
- 26. Compass needle magnet
- 27. Hypogeal germination.
- 28. Mental disability /physical disability.
- 29. To prevent diseases and disorders of the
- 30. They enable man to produce energy / enable man to do work.
- 31. Less effort is used to overcome the load

32. Both make their own food

- Single movable pulley
- 34. It makes germs more resistant and the sickness becomes worse
- 35. The sun is at an angle to the refracting surface.
- 36. Reduces overcrowding of plants in one species. increases chances of survival for plant place /enables plants to colonise new areas /
- 37. Reduces bad smell /kills flies
- 38. It causes the body to produce antibodies against infections
- 39. Water vapour /carbon dioxide
- 40. By diffusion.
- 41. (a) Primates.
- (b) It enables a weaver bird to overcome resistance in air during thight.
- (c) Both have backbone /are warm blooded /live in the bush
- 42. (a) The testes produce sperms /production of sperms by the testes
- (b) Puberty.
- (c)Production of ova /by ovaries / menstruation periods begin /development of ovames
- 43. (a) Paraffin /kerosene
- (b) It prevents fire flame from being blown by wind.
- (c) Heat energy / light energy