STEM EXAMINATIONS BOARD

PRE-PRIMARY LEAVING EXAMINATION SET I, 2022 INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

-	- Random No.				Personal No.	
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Candidate's Name		
Candidate's Signa	ure:	
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.

	EXAMI USE ONI	
Qn. No.	Marks	EXR'S NO.
1-10		
11 - 20	1	att May
21 - 30	. ,	20 4
31 - 40	1	77
41 - 43		
44 - 46	1,500	100 200
47 - 49	- 11	de est
50 - 52	13,	
53 - 55	1	,
TOTAL	· A	

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 caring for the human body organs.
5.	Which fungal disease in human beings is prevented by wearing clean and dry stockings
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 cars?
10.	
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 unswer questions 15 and 16.
	Cell membrane
5.	Name the part marked A on the diagram above.

16	What is the role of the blood cell shown in the diagram above?
	and the same of th
17.	How do toads reproduce?
18.	Apart from centigrade scale, give one other scale used for measuring temperature.
19.	Why do we tie the tourniquet on the upper part of the bitten part?
20.	Write down one benefit of agroforestry in the environment.
	······································
21.	Give one type of bees in a hive.
41.	Give one type of bees in a five.
22.	Write down any one use of plants in the environment.
	The down and, one are of passes of p
	The illustration below shows an experiment carried out in a class. Study and use it to
	answer questions 23 and 24.
	Wax
	I M N
	Nail
	Burning candle
23.	How does heat from the candle reach wax N in the diagram above?
20.	
24.	What happens to the temperature of the nail when heated as shown in the diagram
10 to a line	above?
25.	Give one way of controlling common sicknesses in homes.
	The diagram below shows a magnet. Study and use it to answer question 26.

26.	Name the magnet shown in the diagram above.			
27.	Which type of germination occurs in millet seeds?			
28.	Write down one type of disability among human beings.			
29.	Give one reason why urine should not be held for a long time in the urinary bladder.			
30.	How are energy resources useful in the environment?			
	How are consign			
31.	Give one advantage of using second class levers.			
32.	How is algae similar to bean plants:			
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			
35.	Why does the rainbow usually occur in the morning and evening?			
36.	Give one importance of fruit and seed dispersal in the environment.			
37.	State the benefit of smoking an ordinary latrine at home.			
38.	How does immunisation improve human body immunity?			
	The diagram below shows the human lung. Study and use it to answer questions 39 and			
	40.			
	Lung			
	A CONTRACTOR OF THE PARTY OF TH			
39.	Give one waste product removed from the body by the human body organ in the			
1	diagram above.			

:

	above?	
	SECTION B: 60 MARKS	
	(Questions 41 to 55 carry four marks each.)	
	the second of th	
11.	(a) Write down a group of mammals where baboons belong?	
	(b) How does a weaver bird benefit from its streamlined body?	
	(c) Give two similarities between a weaver bird and a baboon. (i)	
42.	ad dexidary mature mare adolescents experience wet dreams?	
	(b) At what stage during adolescence do human beings show sexual matu (c) Give two signs of sexual maturity among female human beings.	rity?
	(i)	
8	Glass	
	Fire flame	
	The Hame	
43		
	(b) What is the use of the glass to a working lantern lamp?	. 3
	(c) Give two kinds of energy produced by the working lantern lamp.	
	(i)	3

44. (a) Wr	ite down two reasons why	all members of the community should participate in
	Pri	mary Flealth Cate (P.H.C.)	activities.
(i)		wavines:
(i	i)(i		
(1	o) Gi	ve two principles of Prima	ry Haalth
(i	i)	2	// realth care.
6	ii).	The 15th of	
T	he dia	rram bolon share at	······································
	me dia	gram below snows an obje	ct commonly seen in crop gardens. Study and use it to
C	mswer.	questions that follow.	
		Ed.	
		ATTENDED IN	
		-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
		A STATE OF THE STA	
		A WEST TO SERVICE A SERVICE AS	
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		77 清楚	
		-it had a first in	
45.	(a) N	ame the object shown in th	ne diagram above.
			in (a) above control crop pests?
			That the result to the property of the control of t
			e, give two other ways of controlling field pests.
46.	(a) V	What happens when pollen	grains are deposited on the stigma?
	(b) S	State the immediate result of	of the union of an ovule and pollen grain.
	(c) (Give two characteristics of	flowers adapted to self pollination.
	(i)	·····	
	(11)		
4-		Cal lauren commis	ith their uses in the table below.
47.	Match		
	_	Part (s)	Use (s)
	(3)	Eye lashes	Refracts light rays to focus the image
7-	(i)		•
	(ii)	Pupil	Trap dust and germs
	3.7		Transmite impulgae to the busin
	(iii)	Convex lens	Transmits impulses to the brain
		Onlin marris	Allows light into the eye

	(i)	Eye lashes
	(ii)	Pupil
	(iii)	Convex lens
48.	(iv) (a)	Optic nerve Name the condition caused by lack of the melanin in the human skin.
	(b)	How is sebum useful to the human skin?
	(c)	Give two parts which make up the epidermis layer of the human skin.
	(i)	
	(ii).	
49.		Name the tool used to remove wool from sheep.
	(b)	Why is shearing usually carried out during a dry season?
	(c)	Apart from wool, give two other products got from sheep.
	(i).	
	(ii)	
	Th	e diagram below shows an electric bell. Study and use it to answer question 50.
		Dry cell Switch
		L.—Contact screw
		K—C·
50	. (a	Name the parts marked;
-	(i)	
	(ii	
	(b	
	(0	, — · · · · · · · · · · · · · · · · · ·
) State the energy change which takes place at K when the switch is closed.
		1 Debudention solution (OPS) legally made at home
51	i. (a) Name the oral Renytration solution (eres) to early made at nome.
	(t	
	(i	
	(i	ii) Salt
	11	III

52.	(a) Why are the roots of onion plants regarded as adventitious?						
	(b) Which part of the root system pr	rotects the tip of a growing root against damage?					
	(c) Give two types of root systems in plants.						
	(i) (ii)						
53,	(a) What happens to food in the mo						
	(b) Which glands produce saliva in the mouth?						
	(c) Give the role of the following d (i) Teeth						
54.		of the soil and their uses. Fill in the missing					
	Component (s)	Use (s)					
	(i)	Supplies plant nutrients					
	Earthworms	(ii)					
	(iii)	Enable seeds to germinate					
	Bacteria	(iv)					
	follow	fish. Study and use it to answer questions that					
	Mouth————————————————————————————————————						
	lR IP						
55	(i) P						
4	(ii) R						
	(b) State the use of part marked (Q to a fish.					
	(c) Give one use of nostrils to a f	ish					
	Separate Resident Contract to the State of the Separate S						

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

- l. Petrol /diesel /oil /kerosene /tar.
- 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.
- 5. Athlete's foot.
- 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.
- [1]. It prevents flies from depositing germs on the food.
- Ticks /scorpions /spiders /mites.
- Lead to death /loss of some body parts / fractures,
- Wet wood /water /silver /carbon /copper / nickel.
- 15. Nucleus.
- le. It protects the human body against infections.
- 17. By laying eggs
- 18, Fahrenheit scule.

- 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.

surface.

- 21. Queen bee /drone bee /worker bee.
- 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 exercta.
- 26. Compass needle magnet.
- Hypogeal germination.
- 28. Mental disability /physical disability.
- To prevent diseases and disorders of the kidneys.
- 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.

- ng to 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
- 36. Reduces overcrowding of plants in one place /enables plants to colonise new areas increases chances of survival for plant
- 37. Reduces bad smell /kills flies.

species

- 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 1, 2022

- 1. Petrol /diesel /oil /kerosene /tar.
- z. by blung.
- Kinetic energy changes to potential energy.
- Performing regular physical exercises /fceding on a balanced dict /regular bathing /avoid drinking too much alcohol /having regular medical check up.
- Athlete's foot.
- They have a large vibrating space.
- Wearing thick clothes /warming themselves on fire /keeping indoors.
- 8. Free range system.
- 9. 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.
- It prevents flies from depositing germs on the food.
- 12. Ticks /scorpions /spiders /mites.
- 13.1 ead 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.
- 18. Fahrenheit scale

- 19. To prevent poison from flowing to the heart.
- 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 dict /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.
- 29. To prevent diseases and disorders of the kidneys.
- 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

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(c) Heat energy /light energy