STEM EXAMINATIONS BOARD

PRE-REGISTRATION ASSESSMENT, 2024 PRIMARY SEVEN INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

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Index No.									
Candidate's	Name:			 				 	
Candidate's	Signatur	·e:		 				 	
District ID N	lo:								

Read the following instructions carefully:

- 1. 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.
- 3. Answer all questions. All answers to both Sections A and B must be written in the spaces provided.
- 4. 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.
- 5. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks**.
- 6. Do not fill anything in the table indicated: "For Examiners' Use Only" and boxes inside the question paper.

	EXAMII USE ONI	
Qn. No.	Marks	EXR'S NO.
1-10		
11 - 20	,	
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		. [
50 - 52		
53 - 55		
TOTAL		×

2024 Stem Examinations Board

Turn Over



SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1.	Name the food nutrient which improves human body immunity.
2.	Give any one way insects are useful in the environment.
3.	Why are curtains able to reduce echoes in disco halls?
4.	How does eating of green vegetables increase the volume of blood in the human body?
5.	Write down any one benefit of artificial insemination in cattle management.
6.	Why do small scale farmers commonly use natural fertilizers in their gardens?
7.	Which immunisable disease affects the brain?
8.	How do adolescent girls manage menstruation periods?
	The diagram below shows the foot of a bird. Study and use it to answer questions 9 and 10.
9.	Name the group of birds with the foot shown in the diagram above.
10.	What is the use of the structures marked M to the birds named above?
11.	Which digestive juice is produced in the mouth?
12.	Why do babies infested with hook worms become anaemic?
13.	Give a reason why farmers debeak their layer chickens.
14.	Name the magnetic ore which naturally exists on earth.
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	Given the body conditions below;
	impotence, dislocation, constipation, choking.
25.	Which of the above conditions affects the human respiratory system?
26.	Give any one reason why planted seeds may fail to germinate.
27.	Which element of a clean home helps in proper rubbish management?
28.	Why does flour particles remain suspended in water when mixed together?
29.	How does crop rotation control crop pests?
	Study the diagram below and use it to answer questions 30 and 31.
30.	Name the object marked X on the diagram above.
31.	What is the use of the object marked X on the diagram above?
22	Why are objects made from clay baked before use?
32.	Wily are objects made from etay baked before ase.
33.	Give any one health danger of drug abuse to the human body.
<i>J</i> J.	
34.	Write down any one cause of swarming in bees.
35.	Why should all members of the community participate in community sanitation?
36.	Which set of teeth is found in adult human beings?

37.	Give any one way impurities affect the quality of water in the environment.
38.	How do germs cause rotting in the environment?
39.	Which part of the human car equalizes pressure on both sides of the eardrum?
40.	State the recommended first aid for electric shock.
	SECTION B: 60 MARKS
	(Questions 41 to 55 carry four marks each.)
41.	The diagram below shows a method of family planning. Study and use it to answer questions that follow. Ovary Uterus (a) Name the part marked M in the diagram above.
7/4	
	(b) Which method of family planning is show in the diagram above?
	(c) How does the cutting and sealing of part L control pregnancy?
	(d) Apart from the method shown above, name one other method of family planning.
42.	(a) Name any two types of cattle feeds. (i)
	(i)(ii)
	5 Turn Over

43.	(a) What is soil ex		
	•	erosion cause soil ex	
			wo factors which lead to soil exhaustion.
	(ii)		
44.	(a) Name two salt	s lost from the body	during diarrhoea.
	` '		
	, ,		ntion?
	(b) How does diar	rhoea lead to dehydr	ation?
		sign of dehydration a	mong human beings.
			ent . Study and use it to answer questions that
	follow.		
	A	В	
	Mosses	Cypress	
	Liverworts	Fir	
	Ferns	Pines	
45.	(a) What general	name is given to all t	he plants listed above?
	(b) How do plants		those in B in terms of reproduction?
	` '	plants which can be a	
	(ii)		
46.	•	y two foreign bodies	which get into the body through natural body
	•		· · · · · · · · · · · · · · · · · · ·
	` '		
		nmended first aid for	each of the following;
	(i) Choking.		
	(ii) Insect in the ea		
		;	
47.	(a) State the energy footballer.	y change which take	s place when a stationary ball is kicked by the
	// TTT 1 1		
	speeding bus?		d when the driver suddenly applies brakes to a

The diagram below shows the human heart. S follow.	
	Left atrium
. (a) Name the blood vessels marked;	
(ii) R	terms of function?
	-1100
(c) Why is chamber Q more muscular than	n cnamper 8?
9. (a) What is culling in rabbit keeping?	
(b) Why do rabbit farmers carry out culling	
(c) Apart from culling, give any two ways	of controlling diseases among rabbits.
(ii)	
0. (a) Write down any two useful fungi.	
• • • • • • • • • • • • • • • • • • • •	the analysis and
(b) Give any two ways fungi are useful in	the environment.
The diagram below shows a musical instrur	
that follow.	
	X
	Turn Ove

	,	of the part marked X in the use of the above instrument
	ive any two musical ins 10wn above,	struments which belong to the same group with the one
	ty of air: Air exerts p	PANNIES
	,	property of air shown above.
	•	
		operty, write down any two properties of air.
		,
(11)		process to the contract of the
Match	practices carried out on	a sheep furm with their benefits.
nakomoniona indirekt	Practice (s)	Benetit (s)
(i)	Docking	Controls internal parasites in sheep
(ii)	Deworming	Prevents foot rot in sheep
(iii)	Hoof trimming	Controls external parasites in sheep
(iv)	Spraying	Makes mating easy
	-	
(ii) D (iii) H (iv) S (a) M (i) (ii) (b) G (i) Fill in	Deworming Loof trimming Praying Tention any two plant f Sive any two ways hum	an beings use fibres from plants. n in the table below.
(ii) D (iii) H (iv) S (a) M (i) (ii) (b) G (i) Fill in	Deworming	ibres in the environment. an beings use fibres from plants.
(ii) D (iii) H (iv) S (a) M (i) (ii) (b) G (i) Fill in	Deworming Loof trimming Praying Tention any two plant f Sive any two ways hum	ibres in the environment. an beings use fibres from plants. n in the table below.
(ii) D (iii) H (iv) S (a) M (i) (b) G (i) Fill in Type Contr	Deworming	ibres in the environment. an beings use fibres from plants. in the table below. Examples (i)
(ii) D (iii) H (iv) S (a) M (i) (b) G (i) Fill in Type Contr	Deworming	ibres in the environment. an beings use fibres from plants. in the table below. Examples (i)

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- 1. Vitamins /mineral salts.
- Some insects are used as food /pollinate plant flowers /improve soil aeration /help in seed dispersal /give us honey.
- 3. They are porous to absorb sound waves.
- Green vegetables supply iron which helps in the formation of blood.
- It prevents injuries caused by heavy bulls on small cows /it is easier to transport semen than transporting a bull /semen from one bull can be used to serve many cows.
- They are cheap /easy to apply /readily available in the environment /stay longer in crop gardens.
- 7. Meningitis.
- 8. By proper use of sanitary towels /regular bathing / wearing clean and dry under wears.
- 9. Swimming birds.
- 10. They are used for paddling in water as they swim.
- 11. Saliva.
- 12. They feed on blood.
- 13. To prevent egg eating among birds.
- 14. Lodestone.
- 15. Planting trees /using alternative source of energy apart from wood fuel /avoid bush burning / introducing new plant species /watering plants / application of manure in crop gardens.
- It prevents growth and multiplication of micro organisms in food.
- 17. Mosquito.
- 18. Malaria /elephantiasis /yellow fever.
- 19. They allow movement in the human body.
- 20. Condensation of water vapour in the atmosphere.
- 21. Free anti-retroviral drugs /medical care /health education /proper feeding.
- 22. The plastic ruler gains electrons as it is rubbed against hair.
- 23. Clay made charcoal stoves retains more heat than metallic ones /clay made charcoal stoves use less fuel than metallic ones.

- It helps to reduce body temperatures of the casualty.
- 25. Choking.
- 26. Lack of oxygen /water /when seeds are planted very deep in the soil /when seeds are damaged by pests /planting immature seeds.
- 27. Dustbin.
- 28. Flour does not dissolve in water.
- Crop rotation starves pests to death /breaks the life cycle of crop pests.
- 30. Wheel chair.
- 31. It helps a crippled person to move from one place to another.
- 32. To make them harder.
- 33. It leads to the damage body organs / progressive forgetfulness /loss of memory / addiction.
- 34. Damage of the brood /over crowding of bees in a hive /over heating of the hive /direct sunshine into the hive /when bees are attacked by enemies /dampness and bad smell in a hive.
- 35. Health activities benefit all members of the community.
- 36. Permanent teeth.
- 37. They add taste /smell and colour in water / increase the boiling point of water /makes water hard.
- 38. By feeding on dead matter.
- 39. Eustachian tube.
- 40. Breaking the circuit at the source.
- 41. (a) Vagina.
 - (b) Tubal ligation.
 - (c) It prevents the ovum from moving down the uterus.
 - (d) Vasectomy /use of birth control pills / condoms use /norplant method.

- (a) Fodder crops /succulents /hay /pastures / concentrates.
 - (b) To increase lactation period /promote proper growth /protect cattle against infections /prevent abortion in in-calfs /increase milk let down.
- 43. (a) Loss of soil fertility.
 - (b) It makes top fertile soil move from one place to another.
 - (c) Leaching /over cultivation /bush burning / mono cropping /prolonged use of artificial fertilizers.
- 44. (a) Sodium /potassium.
 - (b) It leads to loss of water from the body through stools.
 - (c) Dry mouth lips /sunken eyes /little or no urine is passed out /sunken soft spot on the head /pale skin.
- 45. (a) Non flowering plants.
 - (b) Plants in A reproduce by means of spores while those in B reproduce by seeds.
 - (c) Pedo /cedar /gingko.
- 46. (a) Dust /insects /seeds /food /small stones.
 - (b) (i) Choking Giving several sharp blows at the victim's back.
 - (ii) Insect in the ear Pour clean cold water in the ear until the insect comes out floating.
- 47. (a) Potential energy changes to kinetic energy.
 - (b) Due to the force of inertia.
 - (c) Mechanical energy /heat energy /sound energy / magnetic energy /electric energy.
- 48. (a) (i) O Venacava.
 - (ii) R Aorta.
 - (b) Both carry blood away from the heart.
 - (c) Chamber Q pumps oxygenated blood with

- greater pressure over a long distance.
- (a) Removal of sick and unproductive rabbits from the farm.
 - (b) To prevent the spread of diseases from sick rabbits to health ones.
 - (c) Regular vaccination /keeping the hutch clean and dry /proper feeding of rabbits / provide proper ventilation in the hutch.
- 50. (a) Mushrooms /moulds /yeast.
 - (b) They help in the decomposition of organic matter /some fungi are used as food /for baking bread /fermentation of alcohol / making of antibiotics.
- 51. (a) Tube fiddle.
 - (b) It is used for plucking the string.
 - (c) Guitar /adungu /lyre /violin /viola.
- 52. (a) It enables chemicals to come out of the knapsack sprayer when spraying /helps in injecting medicine into the body using a syringe /helps to drink water using a straw.
 - (b) Air occupies space /has volume /air has weight.
- 53. (i) Docking Makes mating easy.
 - (ii) Deworming Controls internal parasites.
 - (iii) Hoof trimming Prevents foot rot in sheep.
 - (iv) Spraying Controls external parasites in sheep.
- 54. (a) Sisal /jute /banana fibres /cotton /palm leaves.
 - (b) For making ropes /mats /balls /dolls / clothes /mulching /crop gardens /thatching houses.
- 55. (i) Birth control pills.
 - (ii) Pain killers.
 - (iii) Coartem /quinine.
 - (iv) Dewormers.

END