

HORMISDALLEN SCHOOLS' EXAMINATIONS BOARD

PRE-PLE SET I INTEGRATED SCIENCE 2025

Time Allowed: 2 hours 15 minutes

Random Number

Candidate's N	lame:		-				
Candidate's s	ignat	ure: _	 		 	 	
Branch:							
Ctroom							

Personal No.

Read the following instructions carefully.

- 1. This paper is made up of two Sections: A and B.
- 2. Answers to both sections must be written in the spaces provided in full sentences.
- 3. Section A has 40 questions (40 marks)
- 4. Section B has 15 questions (60 marks)
- 5. Attempt all questions. All answers to both sections A and B must be written in the spaces provided.
- 6. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will **NOT** be marked.
- 7. Crossing out of answers will lead to loss of marks.
- 8. Any handwriting that cannot be easily read may lead to loss of marks.

FOR EXAMINERS USE		
	ONLY	
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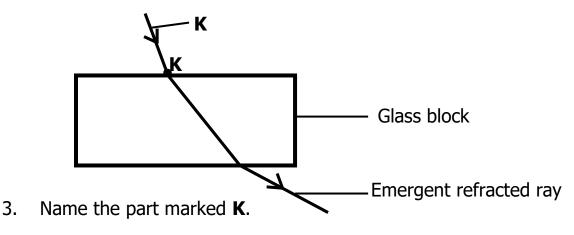
1	. HOSEB PRE-PLE SET I 202	5 SCIENCE
EXARMINERS' INITIALS:		

SECTION A (40 MARKS)

1.	Name the vector i	tnat spreads maiaria	to numan beings.	

2. Give any **one** reason why people are advised to brush teeth after eating food.

The diagram below shows a light ray hitting a glass block. Study it and answer questions 3 and 4.



- 4. Why does the ray bend at point **A** as it enters the glass block?
- 5. What piece of advice can you give to people who are going out on a sunny day to prevent dangers of the sun's heat?
- 6. Why is it likely for drowning to occur near a swimming pool?
- 7. State any **one** food stuff rich in carbohydrates.
- 8. Name the type of soil erosion where the top soil is removed uniformly.
- 9. In which **one** way does the skeletal system support the circulatory system?
- 10. Identify the organ of the respiratory system that is made up of rings of cartilage.

2 HOSEB PRE-PLE SET I 202	5 SCIENCE
EXARMINERS' INITIALS:	

11.	Why do road constructors put small stones on the road surface?
12.	Name the type of bees produced from unfertilized eggs.
13.	Give a reason why condensation is important in the rain cycle.
14.	Write down the natural change that occurs in mountainous area whose effects can be controlled by relocating people.
	e diagram below shows a beak of a bird. Use it to answer estions 15 and 16.
15.	Name any one bird with such kind of beak.
16.	How is the beak above adapted to its function to the bird?
17.	Identify the weather instrument used to measure air pressure at a weather station.
18.	Why are people discouraged from sharing sharp piercing objects?
19.	State any one cause of seed dormancy where necessary conditions for germination are present.
20.	Name the human body organ that helps in formation of urine.
21.	State any one way magnets are important to cobblers.
22.	Why do crop farmers cut off leaves from a banana sucker before planting it?
3	HOSEB PRE-PLE SET I 2025 SCIENCE
EXA	RMINERS' INITIALS:

23.	Apart from boiling, name any one other way of making water safe for drinking.
	diagram below shows a method of harvesting trees. Use it to wer questions 24 and 25.
24.	Name the method of harvesting trees drawn above.
25.	State any one advantage of using the method of harvesting trees above.
26.	How are handles of iron boxes made to prevent heat from passing through them?
27.	Which reproductive characteristic makes duck billed plantypus to be similar to birds?
28.	What feature enables the ileum to absorb digested food?
29.	State the role played by bacteria in making yoghurt.
que	diagram below shows a type of teeth. Use it to answer stions 31 and 32. Name the type of teeth drawn above.
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4	HOSEB PRE-PLE SET I 2025 SCIENCE
EXA	RMINERS' INITIALS:

31.	How is the type of teeth named in "30" important during digestion?
32.	Name the component of blood that is destroyed by malaria parasites.
33.	State any one way of conserving non-renewable energy resources in the environment.
34.	What happens when naked wires carrying current meet?
35.	Give any one physical change that occurs in boys during puberty.
36.	Why are lactating mothers considered vulnerable?
37.	Identify the step in cleaning clothes that helps to soften dirt.
38.	Give a reason why builders install air terminals on top of buildings.
39.	Name the type of cattle kept for milk production.
40.	State any one effect of drug dependence to an individual.
	SECTION B (60 MARKS)
41.	The diagram below shows the human heart. Study it and answer questions that follow
a) (i) (ii)	Name the blood vessels marked W and Y . W Y
5	HOSEB PRE-PLE SET I 2025 SCIENCE
EXA	RMINERS' INITIALS:

b)	Use letter K and label septum on the diagram above.			
c)	State any one way of caring for the heart.			
(i)				
b)	Mosquito Mention any one bacterial disease that can affect the human skeleton.			
c)	Give any one way of controlling diseases that can affect the human skeleton.			
	a) State the importance of the following elements in promoting PHC) First Aid			
(i	i) Water and sanitation			
b)	How are VHTs important in promoting PHC?			
c)	Mention any one principle of PHC.			
44. a)	Explain how does strong heating lead to demagnetization. (2marks)			
b)	Apart from strong heating, name any one other way magnets can be demagnetized.			
c)	State any one way of preventing magnets from being demagnetized.			
45.	a) Name the type of teeth absent in the milk set of teeth.			
b)	How is the enamel important to the tooth?			
	Give any two ways of caring for the teeth.			
(ii)			
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	RMINERS' INITIALS:			
	INITIALIZE TIATITALES:			

	a) How are the following drugs abused?
•) tobaccoi) alcohol
•	State the difference between drug abuse and drug misuse.
c)	Give any one way patients misuse drugs.
47.	a) You are given with the following; burning charcoal stove, kettle with water and a cold plate. Using the given items above, discuss the process of the rain cycle. (2marks)
b)	State any one danger of rainfall in the environment.
c)	What does the burning charcoal stove represent during the rain cycle?
48.	Below is a diagram showing a person doing a good health practice. Study it and answer questions that follow.
	lau
a)	Identify the health practice drawn above.
•	State any two ways the health practice above is important to people. i) ii)
c) (
7	

EXARMINERS' INITIALS:

	,	oducts got from sheep.				
	i) ii)					
b)	7	of docking in sheep manage	ement.			
c)	Identify any one paras	site that can affect sheep.				
50.	Match the items in list A to those in list B.					
	List A	<u>List B</u>				
	BCG vaccine	pneumonia				
	PCV	tetanus				
	DPT vaccine	measles				
	Measles	tuberculosis				
(ii)	PCV					
•	·					
(iv) Measles vaccine					
51.	Below are different answer questions the	musical instruments. St at follow. B	udy them and			
a) (i)	Name the group of mubelong. B	sical instrument to which in	nstrument B and C			
	C					
b)	How can the pitch of n	nusical instrument in A be i	ncreased?			
c)	State any one factor to	hat can affect pitch of soun	id.			
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52.	a) Apart from propagation by stem cuttings, give any one other method of artificial vegetative propagation.
	Give any two plants that can be propagated by means of stem cuttings.
(i)
(ii)
c)	State any one quality of a viable stem cutting.
(a) Mention any two organs that make up the excretory system.
	How is the cortex an important part of the kidney?
c)	Identify any one important process that occurs inside the kidney.
54.	a) What is meant by the term silting?
•	Give any two causes of silting.
(ii)
c)	State any one way of controlling silting.
55.	a) Jerome used a single fixed pulley to raise the load of 75kgf. Calculate the effort force that was required to overcome the load force. (2marks)
b)	Besides raising loads, give one other way pulleys are important to people.
c)	Mention any one force that can lower the efficiency of pulleys.
	END
9	HOSEB PRE-PLE SET I 2025 SCIENCE
EXA	RMINERS' INITIALS: