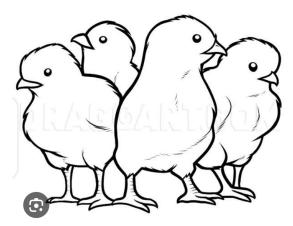
Name:Signat	ure		
END OF YEAR ASSESSMENT	ı		
SENIOR ONE - 2023			
PHYSICS			
Time: 1 ½ hours			
INSTRUCTIONS			
This paper consists of two sections A and B .	1		
Section A consists of 6 short response questions each			
Answer all questions in this section in the spaces prov			
Section B consists of one extended response quest	, ,		
marks. Answer this question on the answer sheet pro	vided.		
❖ Assume where necessary;	20.1 -3		
•	00 kg m ⁻³		
• Acceleration due to gravity on earth = 10	ms ⁻²		
SECTION A			
Answer all questions in this section.			
1. a) Molecules of air trapped in a balloon are said to u motion.	ndergo random zigzag		
	maxisment of the gas		
i. What theory can help explain the random molecules?	_		
molecules:	(01 score)		
ii. Explain what would happen to the rate of moti	ion of the molecules if		
the balloon is immersed in cold water.			
the bandon is infinersed in cold water.	(02 300103)		
••••••) • • • • • • • • • • • • • • • • • • •		
b) Why wouldn't you advise anyone to construct a p	it latrine very close to		
the residential house.	(02 marks)		
•••••••••••	,		
2. How would advise a fellow Senior One learner	to ensure safety in a		
laboratory?	(05 scores)		
••••••			

3.	Brenda wanted to determine the density of an irregular shaped stone. He used a measuring cylinder filled with water up to the 50 ml mark. She then carefully dropped the stone and the water raised to 75ml mark as shown below.
W	a) What general name is given to this method of determining volume? (01 score) b) What was the volume of the stone in cm³?. (02 scores) c) Brenda later measured the mass of the stone using a beam balance and found it to be 68 g. (02 scores)
 4.	Below is a diagram of a mercury-in-glass thermometer used for measuring point temperature?
	Lower Fixed Point Stem Upper Fixed Point Glass bulb Thin Bore Glass Tube Hoo Mercury Capillary tube
a).	What is meant by each of the terms; i. Lower fixed point. (01 score)

	• • • •					• • • • • • • • •		• • • • • • • • • •	
	ii.	Upper fi	xed point.					(01 sc	ore)
	• • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • •	•••••	•••••	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••
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b)	Sugg	est any	three reaso	ns why	mercury	is pre	ferred to	water	as a
		nometric 1		J	, , ,	•		(03 scor	
5	(a) W	Then astro	onauts visite	1 the mo	on they a	carried al	ong oxy	gen conta	iners
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								(02)
	i.	w nat wa	as its mass?					(02 scc)res)
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	11.		celeration d	•	•				
		weight o	of the moon 1	over on	the moon	's surfac	e?	(01 sco	re)
		•••••	••••••	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	•••••	•••••	• • • •
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6.	Use t	the option	s to fill in th	e missin	g spaces i	n the foll	owing pa	assage. No	ot all
	optio	ns must b	e used.					(05 score	es)

good radiation melting low conduction poor
wooden heat black metallic temperature degrees convection high
is the numeric measure of the hotness or coldness of a
object or region. The absorption of energy leads to a increase in the temperature of a body.
Heat moves from a region of temperature to a region of temperature.
Heat is majorly transferred by means of in solids, liquids and gase
respectively.
conductors of heat allow heat energy to pass throug them easily while conductors of heat do not allow heat t pass through them easily.
It is for this reason that handles of ladles are SECTION B (10 scores)

7. One-day-old chicks are vulnerable to extreme temperatures. Opio is rearing chicken on a commercial scale and he has bought 1000 one-day-old chicks.



- a) Suggest possible causes of extreme coldness and hotness in the house.
- b) Explain what Opio should do to regulate the temperature in the chicken house.

END