NAME:STREAM.	• • • • • • • • • • • • • • • • • • • •
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# KAMSSA LOWER SECONDARY EDUCATION EXAMINATIONS PHYSICS SENIOR TWO END OF YEAR 2022 2 Hours 15 Minutes

## **SECTION A**

# Instructions: Attempt all questions in this section

# SECTION A Attempt all questions.

1. Naturally, water usually flows from up land sources such as crater is mountains to sources in low land. NWSC pump water from low land.	
storage tanks at upper levels using water pumps. Explain how this	is possible
and how the consumers are able to collect this water.	(5 marks)
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2. You have been selected amongst science learners who are to go on a The entire group has been given raw food to take a long. You have been design and make a solar concentrator that will be used for cooking while field tour since there is no other source of energy at the destinations of using the knowledge of reflection of light, what materials are you likely	n tasked to ile on the f the strip.
	(5 marks)
	• • • • • • • • • • • • • • • • • • • •

3.	There has been an outbreak of malaria in your community and your friend is admitted in hospital.	•



You have been delivering a warm meal; however, you are required to deliver a
hot meal for her in hospital. Without using a food flask, how would you ensure
that the food you have prepared remains hot till you reach hospital? (5 marks)

4. Truck drivers in masaka load their trucks beyond what's required by traffic rules. They are always arrested and charged by the traffic police department.



Briefly explain the dangers of this situation.	(5 marks)
	•••••
	• • • • • • • • • • • • • • • • • • • •
5) A brick of mass 3.0kg and dimensions 5.0cm $\times$ 3.0cm $\times$ 2.0cm rests on the laboratory table. Calculate the	on different
(a)Maximum pressure	$(02\frac{1}{2} \text{ marks})$
	• • • • • • • • • • • • • • • • • • • •
	•••••
b) Minimum pressure	$(02\frac{1}{2} \text{ marks})$
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б) (a)State Pascal's principle	(02 mark)
	• • • • • • • • • • • • • • • • • • • •

(b)Identify devices that apply Pascal's law		(03marks)			
		•••••			
7) Given the following materials copper, gl	lass, steel, Sulphur, brass, woo	d, cork,			
Use the above material to complete the ta	ble below.	<u>(05 mark</u> s)			
Materials attracted by Bar magnet	Materials not attracted by bar	magnet			
8) (a)Distinguish between potential energy	and kinetic energy.	(02marks)			
••••••					
		• • • • • • • • • • • • • • • • • • • •			
(b)At a playground, Musa of 25Kg mass cl	<del>-</del>	_			
and slides down the slope. At the end of the his velocity is 1ms-1. what is his change in	<del>-</del>	_			
		•••••			
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CROMION B					

# SECTION B

# Attempt only one question

9. Students from KAMSA secondary school intend to visit one of the two tourist locations. The peak of mountain Rwenzori and the shores of Lake Albert in western Uganda.

### Task

As a tour guide, write down the guidelines based on knowledge of pressure students should follow to ensure safety while on the tour.