	Name	stream
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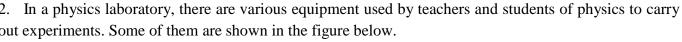
S.1 TERM TWO MID TERM EXAMINATIONS 2023 **PHYSICS**

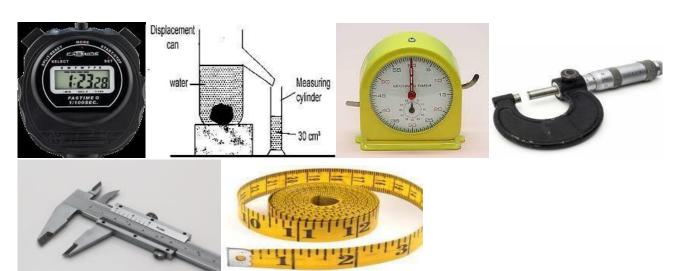
TIME: 1 hour 30 minutes

T 4	4	•
Inst	ructi	ons

Attempt all questions in this paper

Un tidy work shall not be marked	
1(a) Write down any 4 branches of physics you know	(04marks).
(b) What is meant by the term laboratory?	(01 mark)
(c) Write down any 3 laboratory safety precautions take	
2. In a physics laboratory, there are various equipment used out experiments. Some of them are shown in the figure below	d by teachers and students of physics to carry

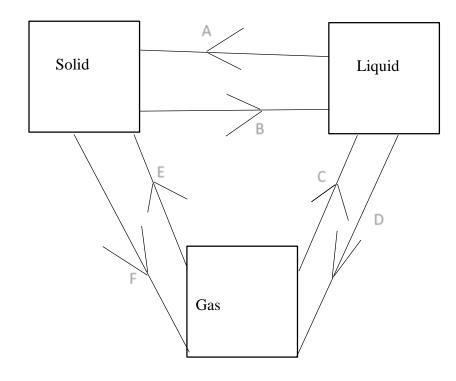




the physics lab	(12 marks)	
3. (a) The school administration is plant	ning to install ceramic tiles in a classroom. Each tile is 40c	cm by
40cm and costs sh.4000. Make a bu	dget for the administration indicating the number of tiles	required
and the total cost if the classroom ha	as dimension of 4m by 4m. (08 marks)	
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4. Length of a football pitch is a fundamental physical quantity whereas area of football pitch is Derived quantity." said the teacher			
(i) Distinguish between a fundamental and derived physical quantity (02marks)			
(ii) Name any other four fundamental quantities you know.	(02 marks)		
(iii)Name any other four derived quantities you know.	(02marks)		
5. (a) You found your brother using a ruler to find the volume of a stone.	Do you think he is on the right		
track or not? if no, then what are the right procedures to follow in or (use illustrations where necessary)	(04marks)		
(use illustrations where necessary)	(04marks)		
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(b) A cylindrical tin of mass 48g has a radius of 7cm and height of 4cm. (i) Calculate the volume of the tin	(03 marks)
(i) Density of the tin in kgm^{-3}	
6. (a) Solids normally have higher density as compared to liquids however to water. Explain why	(01 mark)
(b) Why do you think among the three states of matter, gases have the least dens	sity? (01 mark)



A, B, B	
C, D	
EE	
7 (a) Express the following numbers in scientific notation	
(i) 4378	(01mark)
(ii) 0.006107	(01mark)
(c) How many significant figures does each of the following measured quantities have?	(04 marks)
5.72cm	
137.0	•••
920 m	
(d). Convert 25 cm^3 to $m^3(03 \text{ marks})$	