ADM	NAME	CLASS
	ECONDARY SCHOOL P.O BO	
FORM TW	O PHYSICS END TERM EXA	MI
TERM I 20	015	TIME 2HRS

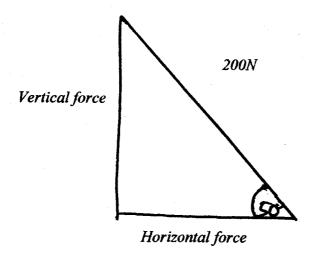
Instructions

- > Write your name admission number and class in the spaces provided above
- > Answer all the questions in the spaces provided in the question paper.
- > All working must be shown clearly.
 - 1. Define the terms
 - a) Vector quantity

(4mks)

- b) Scalar quantity.
- 2. A garden roller is pulled with a force of 200N acting at an angle of 50° to the level ground. Find the horizontal force pulling the roller. You may use the diagram below.

 (3mks)



3. Explain how you would assist a victim of; a) Acid burn. (4mks) b) An electric shock. 4. Give the length measured using the metre rule shown below. (4mks) 个人 **X**2 $X_1 =$ $X_2=$ 5. A coffee table measures 40cm by 30cm. its top has a thickness of 2cm. determine the (2mks) Area of the top of the table. i) The volume of material used to make the top of the table. Give your answer in ii)

standard form.

a) Define center of gravity.

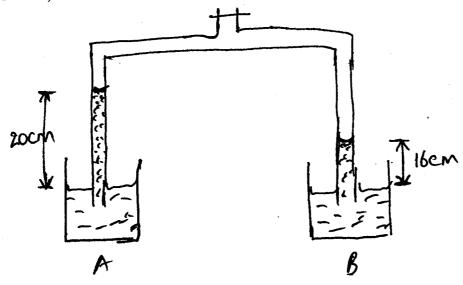
6.

(3mks)

(2mks)

	b) How does the position of center of gravity determine the stability of a body.	(2mks)
	7. (a) What is density? Give its SI unit.	(3mks)
	(b) Gold of mass 9.6 grams fills a container whose capacity is 0.5cm ³ the density of gold.	. Calculate (3mks)
	8. (a) Define pressure and give its SI units.	(3mks)
g = 10	A block of copper with a density of 8.9gcm ⁻³ measures 5cm by 2cm by 3cm. Gi	•
i) ii)	Maximum pressure the block exerts. The minimum pressure.	(3mks)
	9. One of the properties of a liquid used in a hydraulic machine is that it must not compressible. State any other property of the liquid.	st be (2mks)

10. The liquids were sucked up in two identical tubes as shown below. Given the liquid B is water, determine the density of liquid A.



- 11. Convert temperature below into the indicated unit
- a) 30°C into kelvin
- b) 570K into °C
- c) -23°C into K

12. Why are ventilation holes are positioned high up on the wall? (2mk)	
13. (a) What is light?	(2mks)
b) Name the two major types of sources of light.	(2mks)
14. (a) A pinhole camera of length 20cm is used to view the image of a tree of height 12cm which is 40cm away from the pinhole. Calculate the height of the image tree on the screen.	ght of the (3mks)
(b) Write down three characteristics of the image formed above.	(3mks)
15. In the figure below, the mirror is rotated through an angle of 10°. Determine the	e angle

through which the reflected ray is rotated for the same incident ray.

(2mks)

16. State THREE factors that	affect electrostatic force.	(3mks)		
17. Mention any TWO ways	of discharging an electroscope.	(4mks)		
18. Draw the symbol used for the electrical appliances shown below. (4mks)				
Appliance	Symbol			
Battery				
Switch		•		
Capacitor				
Variable resistor				

22. What is the purpose of a cell in a circuit?

(2mks)

23. Name six sources of electricity.

(6mks)

24. Give two faults of a simple cell.

(2mks)