NAME:	ADM
JUJA GIRLS /MIDWAY HIGH SCHOOLS	
END TERM I EXAMINATIONS 2020	
FORM ONE	
PHYSICS	
TIME: 1hr 45 min	
Instructions	
 ▶ Answer all questions in the spaces provid 1) Define the following terms: 	led below each question. (2mks)
a) Science	
b) Physics	
2) Identify any <i>two</i> wonders of nature explained I	by Physics.(2mks)
3) Explain briefly what Nuclear Physics deals wit	h. (2mks)
4) Give the difference between basic physical qu (2mks)	antities and derived physical quantities.

5) Def	ine the following:	(10 mks)
a)	Length	
b)	Area	
c)	Volume	
d)	Mass	
e)	Density	
f)	Time	
g)	Weight	
h)	Force	
i)	Elastic material	
j)	Laboratory	
6) Sta (2mks	te <i>two</i> factors considered when choosing an instrumos)	ent for measuring length

7) How are parallax errors minimized when using a metre rule?	(1mk)
8) Convert the following into appropriate SI units: a) 30000mm	(8mks)
b) 9000cm ²	
c) 520cm ³	
d) 0.8gcm ⁻³	
9) A thin thread of length 550cm wraps around a cylinder exactly 25 times. circumference and radius of the cylinder. (π = $^{22}/_7$)	Calculate the
10) Jerome found that the perimeter of his farm was approximately 500 st stride is 1.1m long, what is the perimeter of the plot?	rides. If his (2mks)

11) A ream of foolscaps contains 500 sheets of papers and has a mass of 2 kg. The			
size of the ream is 300mm long, 50mm wide and 200mm high. Find: a) The thickness of one sheet of paper in metres.	(2mks)		
b) The mass of one sheet of paper.	(2mks)		
c) The volume of the ream in SI units.	(2mks)		
d) The volume of one sheet of paper in SI unite.	(2mks)		
e) The density of the paper used to make the foolscap.	(3mks)		
12) Water level in a burette is 24cm³. If 100 drops of water fall from the burette and the average volume of one drop is 0.12cm³, what is the final water level in the burette? (3mks)			
13) The length of a free spring is 8.5cm. When the spring is loaded, it's length 13.2cm. Calculate the extension of the spring.	gth becomes (2mks)		

14) The density of glycerine is 1.26gcm ⁻³ . What does this mean?	(1mk)
15) Some plasticine is moulded to form a sphere of radius 3.5cm.a) Calculate the volume of the sphere.	(2mks)
b) If the same plasticine is remoulded into s cylinder, determine the cylinder.	volume of the (1mk)
c) Given that the height of the cylinder in (b) above is 7.0cm, calcula (2mks)	ite its diameter.
16) A mixture consists of 40cm³ of water 60cm³ of liquid X. If the densitiliquid X are 1.0gcm³ and 0.8gcm³ respectively, calculate the density of to (3mks)	

17) State <i>two</i> effects of force on a body.	(2mks)
18) Why is force said to be a vector quantity?	(1mk)
19) Give the difference between adhesive and cohesive forces.	(2mks)
20) Water rises up a narrow tube while mercury is depressed inside the sar Explain.	me tube. (2mks)
21) The weight of a certain solid in air is 550N, when the same solid is fully in brine it weighs 400N. Calculate the upthrust due to brine on the solid.	submerged (2mks)
22) State <i>two</i> factors that affect the surface tension of a liquid surface.	(2mks)