NAME	ADM NO
SCHOOL	DATE
STUDENT'S SIGNATURE	

PHYSICS

TIME: 2 ½ HOURS

March 2017

- INSTRUCTIONS TO STUDENTS

 1. Answer all questions in 44 Answer all questions in this question paper .
- 2. All your answers must be written in the SHEETS provided.

1. 	What is meant by the term 'basic quantities'	(1 mk)	
 2.	Define length and state its SI unit	(1 mk)	
 3.	Name two types of errors and state how each is minimized whe	n measuring the length of objects. (4 mks)	
4.	Describe how you would estimate the thickness of one paper in ruler only		
5.	State three limitations of using the displacement method when (3 r	determining the volume of an irregular solid mks)	
6.	A wire of radius 6 mm and length 400 is melted into a sphere. C	alculate the radius of the sphere in centimeters. (3 mks)	
7.	Convert 5 g/cm ³ to the SI unit.	(2 mks)	

Ο.	Oshig the following masses and volumes of su	ibstances, calculate their defisities in 51 dilit.
	a) 200 mg, 0.0004m ³	(2 mks)
	b) 0.86 kg, 1000000 mm ³	(2 mks)
•	400 3 6 4 4 5 1 11 50 3 6	
9.	find the average density of the mixture. (Take	centrated acid of density 1.2 g/cm ³ . Assuming no change in volume density of water = 1.0 g/cm ³) (4 mks)
10	A density bottle weighs 70 g when filled with A given that the density of water is 1000 kg/m	water and 94 g when filled with a liquid A. Find the density of liquid n^3 . (5 mks)
		(c me)
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11.	State four effects of forces	(4 mks)	
12.	State three types of forces that act between objects that are not in contact	(3 mks)	
	Describe two types of molecular forces	(4 mks)	
15.	State three areas of application of capillary rise.	(3 mks)	
16.	Distinguish between mass and weight and state SI units	(4 mks)	

ferentiate between vector quantit	ies and scalar quantities	(2 mks)