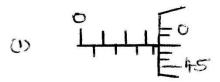
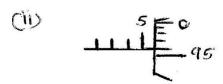
KIPSUTER BOYS SECONDARY SCHOOL

CAT 1 TERM 2, 2017

FORM	TWO	PHYS	ICS		
Name:			Adm. No	Class:	Date:
Instru	ctions:				
	ii). Check the question question is missis	on paper to ascerto ng.	r, class & date in the spain that all pages are prosess are prosess are provided after each q	rinted as indicated	
1.	a)In an experiment to	estimate the size	of a molecule of oil, a d	lrop of oil of volu	me 0.12mm³ was
	placed on a clean wa	ter surface. The oil	spread into a patch of	area 6.0 x 10 ⁻⁴ mm	² . Estimate the
	size of a molecule of	olive oil. (3mks)			
	b)In another oil film	experiment, a stud	ent found that a drop of	oil spread on the	water surface to a
	maximum diameter o	of 28cm. If 200 suc	h drops occupied 0.85c	m ³ , estimate the d	liameter of a
	molecule of the oil. I	n the SI unit of len	gth. (4mks)		
		•••••			
•••••					

2. What are the readings of the micrometer screw gauges shown below. (4mks)





3. How can it be shown that the strength of a magnet is concentrated at the poles?(2mks) **4.** a)A current of 0.5A flows in a circuit. Determine the quantity of charge that crosses a point in 4 minutes. (3mks) b)State two defects in simple cell .(2mks) c) Explain how one of the defect mentioned above is corrected in the dry cell. (1mk)

50°
What is the angle of reflection and incidence?(2mks)
b)State the laws of reflection. (2mks)
c)What property of light is suggested by the shadow formation? (1mk)
6. When a liquid is heated in a glass flask, its level at first falls then rises. Explain this observation (2mks)
7. Explain the domains theory in magnetism. (2mks)
9. Cive two years of magneticing a magnetic material (2mlm)
8. Give two ways of magnetizing a magnetic material. (2mks) ***THIS IS THE LAST PRINTED PAGE***

5. a)The figure below shows a ray of light being reflected from a mirror.