GATITU SECONDARY SCHOOL. P.O. BOX 327 – 01030, GATUNDU. FORM 1 PHYSICS. MID TERM EXAMINATION. TERM 2 2016.

1030kg/m³. Calculate the density of the mixture.

NAME				_ADM	CLASS:
1.	Define the following terms				
	a)	Mass		(2mks	
	b)	Density		(2mks	
	Gold o	f mass 9.6g has a volume	e of 0.5cm ³ . Determine the dens	ity of gold in (3mks	
b)	kg/m³			(2mks	
3.	200cm	³ of fresh water of densit	y 1000kg/m³ is mixed with 100cn	n3 of sea-wa	ter of density

(5mks

4. Define time and give its SI units.

(2mk

5. Force is said to be a push or pull. State five effects of a force.

(5mks

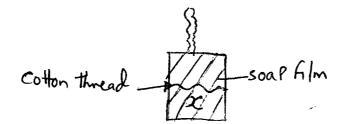
6. List down TEN TYPES of force you are acquainted with.

(10mks

7. Which are the two main factors that would affect surface tension.

(4mks

8. Below is a metal frame dipped in soap film



When part marked X is pricked draw the resulting diagram.

(2mks

- 9. A dog whose mass is 12kg is taken to the moon where gravitational field strength is 1.7N/kg. Determine the dog's weight on
- i) the moon

(4mks

- ii) the earth
- 10. Write down THREE PROPERTIES of a liquid used in a hydraulic machine.
- 1.

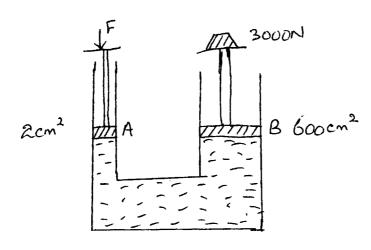
(6mks

2.

3.

11. Determine the value of F in the figure below.

(4mks



12. Write down three factors on which pressure in a liquid depend.

(3mks

- A brick measures 2m by 1m by ½ m and weighs 600N. Find 13.
- Minimum pressure i)

(3mks

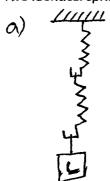
Maximum pressure ii)

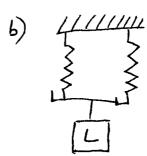
(3mks

- 14. Draw a diagram showing how forces of 4N and 11N can be combined to produce a resultant force of
- a) 7N

(4mks

- b) 15N
- 15. Two identical springs of negligible weight are arranged as shown below





A single spring extends by 1cm when a weight of 2N hangs on it. If L is a load of 6N calculate the extension in each case. (4mks

16. An object weighing 15N appears to weigh 8N when immersed in a liquid. Calculate the upthrust on the object. (2mks