## Greenlawns School, Worli Physics

<u>1 11931</u>	
STD: VIII	Marks: 60
Date: 07/10/2020	Time: 2hrs

## **Question 1**

a.	State Archimedes principle and law of floatation.	[2]
b.	What causes cohesion and adhesion?	[2]
C.	Why does evaporation produces a cooling effect?	[2]
d.	When gas is cooled to certain point, it condenses give reason.	[2]
e.	Relative density of an object is 3 and it has a mass of 600g. What is the volume of it will	
	displace if it is immersed in the water?	[2]

## **Question 2**

- **a.** Mass of an empty density bottle is 45 g, it is 90 g when filled with water and 80 g when filled completely with a liquid. Find :
  - i. Volume of density bottle

	ii. Density of liquid.	
	iii. Relative density of liquid.	[3]
b.	A door is pushed open by a force of 50 N at a point 50 cm from the hinges, What is the	
	moment of force.	[2]
c.	Why we are not allowed to open the doors in an aeroplane?	[2]
d.	Diffentiate between work and power .(any three point of differences)	[3]

## Question 3

a. \	What are the two kinds of mechanical energy? Give one example of each.	[2]
b. 3	State two condition when no work is done by a force.	[2]
<b>C.</b> /	A body of mass 30 kg moving with a speed of 25 ms <sup>-1</sup> . Find its kinetic energy.	[2]
<b>d.</b> /	A car moves some distance by spending 2,00,000 J 0f in 3 min 20 s find the power of	the
(	car.	[2]
е. 🤅	State the factors affecting the power.	[2]

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