GREENLAWNS SCHOOL, WORLI <u>TERMINAL EXAMINATION</u> <u>PHYSICS</u>

STD: VIII

Date: 20/09/2019

Marks: 80

Time: 2hrs.

Question 1

	19df ni moQUAD sonsten evil vieneselle	
b. c. d.	Show interconversion of states of matter in the form of flow charts. Explain the process of sublimation in terms of kinetic theory. Why there is no change in temperature during the melting of a solid. Aman was getting late in the morning so his mother poured the milk in a soccer Aman found out that it was easy to sip the hot milk from the Saucer than the glass what could be the reason behind it. How are the intermolecular distances and inter molecular forces of attraction related to each other.]] ih
	Y Avis young to think B mins on the section of the	
Ques	tion 2	
	3 geltzeu	
	How will you relate relative density and density?	
b.	The mass of an iron ball is 800 g. What should be the volume of the ball in SI system, if the density is 4.80 gcm ⁻³ .	
C.	Carefully observe the image, and name the liquid that are denser than vegetable oil and	
	lighter than honey [2]	

d. Name the special bottle used for determining the R.D of liquid.

e. Why it is easiest to open a closed door by applying force at the edge of the door.

Dish soap

[1]

[2]

[1]

f. List any one effects of force.

Question 3

a.	What is atmospheric pressure? Why do we not feel its effect?	
	Deep sea divers wear specially designed suit before diving into the sea.	•
C.	How does the pressure exerted on the object change when the force applied is doubled an	d
	area on which force is applied reduce to half.	
d.	Differentiate between the pressure exerted by solids and liquid. (any two points)	
e.	The base of a wooden box measure 15cm x 20cm. if the weight of the box is 60N what is the	ne
	pressure exerted by the box on the bed.	

Question 4	
Calculate the amount of moment of force is required to spen are	[2]
b. Piya and her daughter went to buy school bags. While the daughter was choosing fancy be	oags
for herself. Piya was mainly looking at the straps of the bags. What do you think Poonam	is
trying to look in the straps of the bag? Explain the reason behind doing so.	[2]
c. Find the work done by student who applies a force of 10N to displace a table in classroor	n
through the distance of 40cm in the direction of force.	[2]
d. A Car has a kinetic energy 2000 J. What will be its K.E if its speed is doubled	[2]
e. A Machine does 240 J of work in 40 see calculate the power of the machine	[2]
7. Wildeline door 2 to 5 at 10	
Question 5	
a. Show the types of mechanical energy, units, and example in the form of flow chart	[3]
b. why a car and a man running with same speed have different kinetic energy	[2]
c. Give reason why a boy with heavy bag waiting at the bus stop does no work.	[2]
d. State and define S.I unit of energy and give its relation with c.g.s unit.	[3]
u. State and define on and or onergy and great	
Question 6	
Question 6	
a. What do you mean by term energy transformation?	[2]
a. What do you mean by term energy transferred	[2]
c. How much work is done by an electric motor to pump 150 kg of water to a height of 30 m	
and also calculate the power of the motor if it completes this work in 0.5 min.	
	[3]
(() Veli (= V II)	F.1
d. Riddhi lights up a bulb using a battery She wonders which type of energy change could	[1]
e. The satellite of mass 200 kg revolvers around the earth in a circular motion. Calculate the	[2]
work done by the satellite.	[-1
Question 7	
and an visilance mirror in shonning malls	[2]
a. Give reason, why concave mirrors are asset as viginaria.	[2]
c. State the three convenient rays required to draw a ray diagram for formation of images	[2]
spherical mirrors	[3]
d. With help of a ray diagram, show the refraction of monochromatic light through prism w	וווו
proper labeling.	[3]
Question 8	
a. With the help of ray diagram, show the reflected ray when ray is incident on the pole of	fa
spherical mirror at an angle of 45°.	[2]
spriencal militor at an angle of the	

- b. What do you mean by virtual image? How can it be obtained using concave mirror and a convex mirror? Explain with the help of a suitable ray diagram. [5]
- c. Define the following terms
 - Focal point. i)
 - Later displacement ii)
 - iii) Refraction.

[3]