Name of Student	Class	Subject	Board	Chapter
	9th	Physics	FB	07
Date :_____	Objective			Teacher Remarks

Section - A

Q. No.1:- Circle the correct option. Each part carries one mark.

01	In which of the following state molecules do not leave their position?						
a	Solid	b	Liquid	c	Gas	d	Plasma
02	Which of the substances is the lightest one?						
a	Copper	b	Mercury	c	Aluminum	d	Lead
03	SI unit of pressure is Pascal, which is equal to:						
a	$10^4 Nm^{-2}$	b	$1\ Nm^{-2}$	c	$10^2 Nm^{-2}$	d	$10^3 Nm^{-2}$
04	What should be t approximate length of a glass tube to construct a water barometer:						
a	0.5 m	b	1 m	c	2.5 m	d	11 m
05	According to Archimedes up thrust is equal to:						
a	Weight of displaced liquid	b	Volume of displaced liquid	c	Mass of displaced liquid	d	None of these
06	The density of a substance can be found with the help of:						
a	Pascal's law	b	Hooke's law	c	Archimedes principle	d	Principle of floatation
07	At sea level, the atmospheric pressure is about:						
a	$101.300 Nm^{-2}$	b	$101.200 Nm^{-2}$	c	$101.100\ Nm^{-2}$	d	$101.400\ Nm^{-2}$
08	A wooden block measuring 40cm × 10cm × 5cm has a mass 850g. the density of wood is _____						
a	$423 kgm^{-3}$	b	$425 kgm^{-3}$	c	$424 kgm^{-3}$	d	$426\ kgm^{-3}$
09							
a		b		c		d	
10							
a		b		c		d	
11							
a		b		c		d	
12							
a		b		c		d	

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Section - B

Q. No.1:- Attempt any eleven parts. The answer of each part should not exceed 3 to 4 lines. (11×3=33).

01	**Write down the density equations?**	**02**	**Differentiate between stress and strain?**
03	**It is easy to remove air from a balloon but it is very difficult to remove air from a glass bottle. Why?**	**04**	**A cube of glass of 5cm side and mass 306g, has a cavity inside it. If the density of glass is 2.55 gcm^{-3}. Find the volume of the cavity.**
05	**What does it mean when the atmospheric pressure at a place fall suddenly?**	**06**	**State relation for pressure beneath a liquid surface to depth and to density?**
07	**What is meant by elasticity?**	**08**	**Calculate the density of 5 liter of water?**
09	**What is Hooke's law?**	**10**	**Describe briefly about matter?**
11	**A student presses her palm by her thumb with a for4ce of 75 N. how much would be the pressure under her thumb having contact area 1.5cm2?**	**12**	**Can we use a hydrometer to measure the density of milk?**
13	**Define the term pressure.**	**14**	**What is meant by density? What is its SI unit?**

Q. No.4:- Attempt any TWO questions. All questions carry equal marks: (2×10=20)

Q. No.1:- (a).State Archimedes principle.

(b).A steel wire of cross-sectional area $2 \times 10^{-5} m^2$ is stretched through 2 mm by a force of 4000N. Find the Young's modulus of the wire. The length of the wire is 2 m.

Q. No2:- (a).State Pascal's law.

(b).The diameter of the piston of a hydraulic press is 30cm. how much force is required to lift a car weighing 20000 N on its piston if the diameter of the piston of the pump is 3 cm?

Q. No.3:- (a).What is a barometer? Why water is not suitable to be used in a barometer?

(b).A uniform rectangular block of wood 20cm × 7.5 × 7.5cm and of mass 1000 g stands on a horizontal surface with its longest edge vertical. Find:

A: The pressure exerted by the block on the surface B: Density of the wood