SHIKSHA CLASSES

Sub. : Science	**Question Paper**	Marks : 20
Std. : VIIIth - S.B.	**3. Force and Pressure**	Time : 45 min.

Q.1(A) : Choose the correct alternative 2

   1) The SI unit of force is ………..

     a) Dyne   b) Newton   c) Joule   d) m/s

   2) For a given object, the buoyant force in liquids of different density is ……………

     a) same   b) Different   c) Depend on area   d) Depend on density

Q.1(B) : Solve any one of the following question 1

   1) During dry weath while combing hair, sometimes we experience hair flying apart.

     Which type of force is responsible for this ?

   2) What is the SI unit of pressure?

   3) Force is which type of quanity ?

Q.2(A) : Give reason (Any One) 2

   1) A ship dips to a larger depth in freshwater as compared to marine water.

   2) Fruits can easily be cut with a sharp knife.

Q.2(B): Solve any two of the following question. 4

   1) A plastic cube is released in water. Will it sink or come to the surface of water? Why?

   2) Define atmospheric pressure.

   3) How much pressure do we carry on our heads? Why don't we feel it?

   4) The density of a metal is 10.8×10^3 kg/m³. Find the relative density of the metal.

Q.3 : Solve any two of the following question. 6

   1) Why does it happen? If a stationary bus suddenly speeds up, passengers are thrown in the backward direction.

   2) Complete the following tables.

Mass (kg)	Volume(m³)	Density (kg/m³)
350	175	-
-	190	4

Density of Metal (kg/m^3)	Density of water (kg/m^3)	Relative Density
	10^3	5
8.5×10^3	10^3	-

3) Why does it happen? The wall of a dam is broad at its base.

4) The volume of a plastic-covered sealed box is 350 cm^3 and the box has a mass 500 g. Will the box float on water or sink in water? What will be the mass of water displaced by the box?

Q.4 : Solve any One of the following question.   5

1) Explain the Archemedes Principle.

2) a) Define Buoyant Force.On which factor the Buoyant force depend?

 b) How it is decided the object will float or sink in the liquid?

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