

Gyanodaya Model Secondary School

Chandrakot-8, Majuwa Gulmi, Lumbini Province, Nepal

Science (Set 3)

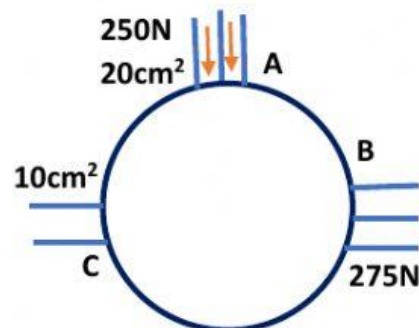
Class: 10

Unit: 2 (Pressure)

Attempt all the questions:

A. MCQs type (Directions: Choose only one best alternative)

- 1) "upthrust = weight of liquid displaced" is
 - a. Pascal's law
 - b. Archimedes' Principle
 - c. Law of floatation
 - d. Newton's law
- 2) The total perpendicular force exerted by a liquid at rest on a given surface in contact is called
 - a. Thrust
 - b. Pressure
 - b. Force
 - d. All of these
- 3) On what principle does hydrometer work?
 - a. Pascal's law
 - b. Archimedes' Principle
 - d. Law of floatation
 - d. Non
- 4) Relative density of a substance is
 - a. Mass of certain volume of substance to the mass of same volume of water at 4°C .
 - b. When the density of any substance is compared with that of water at 4°C is called relative density
 - c. Both 'a' and 'b'
 - d. None
- 5) If Piston A, B and C of the apparatus given in the diagram are supposed to be frictionless. What is the area of piston B and force exerted on piston C?
 - a. 25cm^2 , 125N
 - b. 30cm^2 , 130N
 - c. 30cm^2 , 125N
 - d. 25cm^2 , 120N



B. Subjective type [Directions: Write (type) answer in the box.]

1) State Pascal's law.

2) Write any two instruments based on Archimedes' principle.

3) Write any three differences between force and pressure.

Force	Pressure

4) It is easy to pull bucket of water from the well when it is inside the water, why?

"Best of Luck"

Sunil Thapa