	B.C.M SCHOOL BASANT AVENUE DUGRI ROAD, LUDHIANA **ANSWER KEY OF ASSIGNMENT** **CLASS-IX. SUBJECT- SCIENCE. DATE- OCTOBER 28,2024** **CHAPTER - 3 ATOMS AND MOLECULES** **CHAPTER-10 GRAVITATION(THRUST AND PRESSURE)**
1	(B) Atoms are indivisible particles.
2	(A)Archimedes' Principle
3.	A
4	A
5	B
6	40g
7	286u
8	The correct option is **C** 19.5×10^{-4} Given: Area of contact, $A = 13\ cm^2 = 13 \times 10^{-4}\ m^2$ Let the thrust be F. Pressure acting on the surface, $P = 1.5\ Pa = \frac{F}{A}$ $1\ Pa = 1\ Nm^{-2}$ $\Rightarrow 1.5\ Pa = \frac{F}{13 \times 10^{-4}}$ $\Rightarrow F = 1.5\ Nm^{-2} \times 13 \times 10^{-4}\ m^2$ $\Rightarrow F = 19.5 \times 10^{-4}\ N$
9	Pressure =Thrust/Area
10	Q1(C)Weight of liquid displaced by body (ii) (A)It sinks in liquid (iii) (B)Buoyancy force

	(iv) Refer notes (v) because magnitude of buoyant force is more than the gravitational force acting on the body.