



**NOIDA PUBLIC SCHOOL**  
**A-78, Sector-23, Noida**  
**Affiliation No.2130200**  
**Session : 2023 - 2024**  
**CLASS – XI A (PHYSICS)**  
**PT-1 WORKSHEET -1**



Q1. Who discovered the following

(i) Atomicity of charge (ii) scattering of light by molecules

Q2. Write down order of

(i) height of human being (ii) mass of electron

Q3. Write down dimensions of

(i) Planck's constant (ii) universal gravitational constant (iii) gas constant (iv) angular momentum

Q4. Convert (i) 50 joule into CGS system with the help of dimensional analysis?

Q5. While measuring radius of a sphere a student made an error of 2 percent.

What will be the error in its (i) surface area (ii) volume?

Q6. A physical quantity X is given by  $X = a^2 b^3 c^{-3} d$ . If percentage error in a, b, c and d are 2, 1, 3 and 4 in Percent. Then what will be the error in X?

Q7. Find out dimensions of a, b and c in given expression of distance  $s = at^2 - bt + c$  travelled by a body in Time t?

Q8. Calculate the following with due regards to significant figures.

(i)  $2.5 \times 45.24$  (ii)  $546/24$  (iii)  $8.5/0.5$

Q9. The frequency of a vibrating string depends on its length, tension in string and mass per unit length of string. Derive expression for its frequency?

Q10. Prove that path of projectile is parabolic?