PHYSICS NEET FORMULA

UNITS & MEASUREMENT

1. If $x = a^m b^n c^p$, then fractional error in ' x ' can be calculated as

$$\frac{\Delta x}{x} = m\frac{\Delta a}{a} + n\frac{\Delta b}{b} + p\frac{\Delta c}{c}.$$

2 For vernier callipers, least count $= s - v$.

(s = length of one division on main scale, v = length of one division on vernier scale.)

3 Length measured by vernier calliper = reading of main scale + reading of vernier scale × least count.

4 For Screw Gauge, least count $= \frac{\text{pitch of the screw}}{\text{no. of divisions on the circular scale}}$.

5 Length measured by screw gauge = Reading of main scale + Reading of circular scale × least count.

6 Fundamental Units.

S.No.	Physical Quantity	SI Unit	Symbol
1	Length	Metre	m
2	Mass	Kilogram	Kg
3	Time	Second	S
4	Electric Current	Ampere	A
5	Temperature	Kelvin	K
6	Luminous Intensity	Candela	Cd
7	Amount of Substance	Mole	mol

SIGNIFICANT FIGURES

- Non-zero digits are significant
- Zeros occurring between two non-zeros digits are significant.
- Change of units cannot change S.F.
- In the number less than one, all zeros after decimal point and to the left of first non-zero digit are insignificant
- The terminal or trailing zeros in a number without a decimal point are not significant.