

# 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  $\times$  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  $\times$  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.

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