

Q1: Enlist basic and derived properties of SI System along with their unit and symbols.

Q2: Write Symbol, value, Power of 10 and name of the following SI prefix.

i. Deca ii. Kilo iii. Centi iv. Giga v. Nano vi. Pico

Q3: Write down Symbols of the following.

i. Beta ii. Gamma iii. Pi iv. Epsilon v. omega VI. Infinity

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SUBJECT : BASIC LAB CALCULATION

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BS MLT SEC A

ANS 1:

SI base units

SI base unit

Base quantity	Name	Symbol
length	meter	m
mass	kilogram	kg
time	second	s
electric current	ampere	A
thermodynamic temperature	kelvin	K
amount of substance	mole	mol
luminous intensity	candela	cd

SI derived units

SI derived unit

Derived quantity	Name	Symbol
<i>area</i>	square meter	m ²
<i>volume</i>	cubic meter	m ³
<i>speed, velocity</i>	meter per second	m/s
<i>acceleration</i>	meter per second squared	m/s ²
<i>wave number</i>	reciprocal meter	m ⁻¹
<i>mass density</i>	kilogram per cubic meter	kg/m ³
<i>specific volume</i>	cubic meter per kilogram	m ³ /kg
<i>current density</i>	ampere per square meter	A/m ²
<i>magnetic field strength</i>	ampere per meter	A/m
<i>amount-of-substance concentration</i>	mole per cubic meter	mol/m ³

luminance

candela per square meter

cd/m²

mass fraction

kilogram per kilogram, which may be
represented by the number 1

kg/kg = 1

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ANS 2:

SI PREFIX NAME SYMBOLS

A= 10¹ Deca da

b= 10³ kilo K

C= 10⁻² centi c

D= 10⁹ giga G

E= 10^{-9} nano n

F= 10^{-12} pico p

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ANS 3:

FACTORS.....SYMBOLS****

I. Beta A α

II. Gamma Γ γ

III. Pi Π π

IV. Epsilon E ϵ

V. Omega Ω ω

VI. Infinity

∞

THE END

