

# CLASS IX (PHYSICS)

## Chapter –I

### SYSTEM OF UNIT AND UNITS IN S.I SYSTEM

#### Points to remember:

#### Unit of Mass:

1) The S.I unit of mass is kilogram (Kg)

2) Sub units of kilogram:

The smaller units of mass in common use are gram (g) and milligram (mg)

i.e,

$$1 \text{ g} = 10^{-3} \text{ kg}$$

$$1 \text{ mg} = 10^{-3} \text{ g}$$

3) Multiple units of kilogram : The bigger common units of mass are quintal and metric tone

i.e.

$$1 \text{ quintal} = 100 \text{ Kg}$$

$$1 \text{ metric tonne} = 10 \text{ quintals}$$

$$1 \text{ a.m.u} = 1.66 \times 10^{-27} \text{ kg}$$

\* a.m.u (Atomic mass unit)

#### Units of Time:

1) The S.I unit of time is second (s)

$$1 \text{ s} = 1/86400 \text{ x one mean solar day}$$

2) Smaller units of time :

The common smaller units of time are millisecond (ms) , microsecond ( $\mu\text{s}$ ), shake , and nano second (ns)

$$1 \text{ ms} = 10^{-3} \text{ s}$$

$$1 \mu\text{s} = 10^{-6} \text{ s}$$

$$1 \text{ shake} = 10^{-8} \text{ s}$$

$$1 \text{ ns} = 10^{-9} \text{ s}$$

3) Bigger units of time :

Some time we use the other units of time such as minute, hour, day , lunar month, month, year, leap year, decade, century and millennium.

### **ASSIGNMENT**

Exercise 1(A)

Question No. 18, 23, 24, 25, 26 & 27