

Ans
29/4/22

B. Long / Short Answer Questions.

1. What is measurement? How is a measurement expressed?

ans → Measurement is a comparison of an unknown quantity with a known fixed quantity of the same kind. The amount of a quantity is expressed as numbers in its units.

3. Name four basic measurements in our daily life.

ans → Four basic measurements in our daily life is-

- ~~mass to measure weight~~
- length
- time
- temperature

EXTRA QUESTIONS

- What is the need of and importance of measurement ?

ans → Need and importance of measurement are -

- it provide us with accurate details.
- to determine weight and height measurement is necessary.
- To know the time, length, temperature, weight, height etc measurement is essential.

- How is a measurement expressed ?

ans → The amount of a quantity is expressed as numbers in its units.

B.2. State two characteristics of units.

- ans → i. It should be of convenient size.
ii. It should be universally accepted.

4. What are the SI units of i. mass ii. length
iii. time iv. temperature? Write their names
and symbols.

	SI UNIT	SYMBOL
ans → Mass	kilogram	kg
Length	metre	m
Time	second	s
Temperature	kelvin	K

4. What are the S.I units of i. mass ii. length iii. time iv. temperature? Write their names & symbols.

ans → The space is left between the symbols of two two units when they are used as product.

Ex-1. newton \times second

→ N s

2. Newton \times metre

→ N m

5. Define one metre, the SI unit of length. State its one multiple and one sub multiple.

ans → Negative powers are used for the compound unit formed by dividing one unit by other.

1. $\frac{m}{s} \rightarrow ms^{-1}$

2.

2. $\frac{m}{s^2} \rightarrow ms^{-2}$

3. $\frac{km}{h} \rightarrow km\ h^{-1}$