FORMATIVE ASSESSMENT – II (2022-23)

PHYSICAL SCIENCE

(English Medium)

Key Sheet

Class:IX   **Max.Marks : 10**

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01. The scattering of a beam of light is called the Tyndall effect.   1M

02. C   1M

03(a).   2M

Mass of salt (Solute)   = 20g

Mass of salt solution   = 100g

Mass percentage $= \dfrac{Mass\ of\ solute}{Mass\ of\ solution}$ x 100

$= \dfrac{20}{100}$ x 100

$= 20$

03(b).   2M
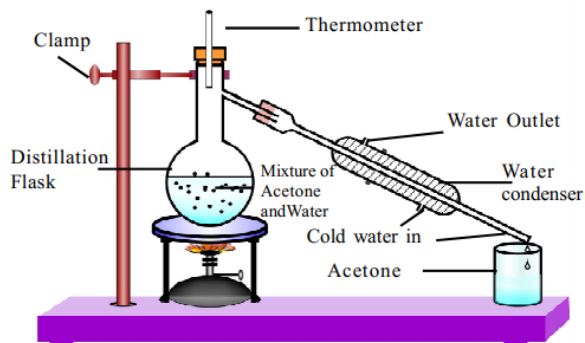
(i) Law of conservation of mass   :

Mass is neither created nor destroyed in the chemical reaction

(ii) Law of constant proportions   :

The relative proportion of elements in a compound is independent of the source or method of preparation.

04(a).   4M

Distillation Experiment diagram :

04(b). 4M

Sl No	Name	Symbol / Formula	Atomic mass / Molar mass	Number of particles Present in molar mass
1	Oxygen Molecule	O_2	32 g	6.022×10^{23} molecules of Oxygen
2	Sodium ion	Na^+	23 g	6.022×10^{23} ions of sodium
3	Sodium chloride	NaCl	58.5 g	6.022×10^{23} molecules of NaCl
4	Nitrogen atom	N	14 g	6.022×10^{23} atoms of Nitrogen