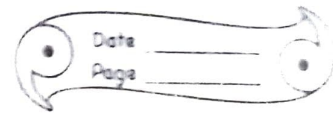


aw
18/10/2021

Autumn Holiday Homework



Level-1 (MCQ)

- ① (C) Iron
- ② (C) Black
- ③ (B) Distilled water
- ④ (d) crystallisation.

Give one word for the following

- ① residue.
- ② Distillate.
- ③ ~~Fractional distillation~~ Decantation.
- ④ fractional distillation

Level-2 (Very short questions)

- ① Matter is anything that occupies space and has mass.
- ② Heat thermal chemical reaction

③ Destruction is one of the undesirable changes.

④ Burning of a candle melts the ~~wax~~ ^{wax} and ~~it~~ ^{again} wax combines with oxygen and changes to carbon dioxide, heat, light. Hence, burning of candle is both physical and chemical change.

⑤ Mixture has many desirable and undesirable substances which can be desirable changes can be used in other ~~at~~ ^{criteria's} and undesirable substances.

⑥ The process in which a solid changes directly into its vapours on heating is called sublimation.

- ⑦ (i) Cream is separated from milk by this method.
- (ii) Different components of blood are separated.

⑧ ^{Separation method} (i) Magnetic ~~method~~ ^{method} is ~~separate~~ ^{separation} principle are:

(i) Is based on the generation of magnetic ~~force~~ ^{forces} on ~~the~~ the particles to be separated.

(ii) which are higher than opposing ~~force~~ ^{forces} such as gravity.

9) (i) Distillation is a fast change and evaporation is a slow change.

10) (i) Removal of undesirable and harmful substances.

(ii) Useful substances can be obtained.

11) (i) Pure substances are homogeneous mixtures. These substances are pure and only one substance.

A pure substance has a fixed melting and fixed boiling point.

12) We know when we heat powdered camphor it sublimates so this mixture can be separated by sublimation.

Level-3 (Short questions)

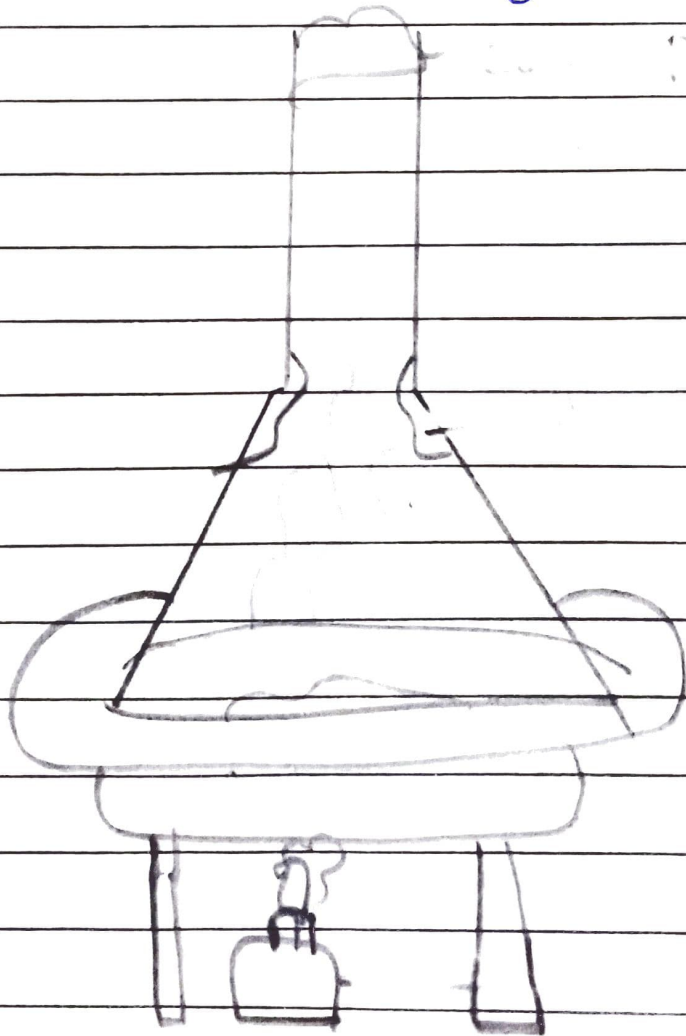
1) The process of separating different dissolved constituents of a mixture by their adsorption on an appropriate material is called chromatography.

Advantages of chromatography are:

- A very small quantity of the substances can be separated
- It identifies the different constituents of a mixture.

use

- Drugs from blood (pathological tests)
 - Pigments from natural colours,
- ② We can separate the mixture of common salt and chalk powder by putting the mixture in water >



③ Evaporation

- Evaporation is slow change
- Evaporation is a surface-phenomena
- Evaporation causes cooling

Boiling

- Boiling is fast change
- Boiling is a bulk phenomena
- Boiling does not causes ~~also~~ cooling

④ Atom

- Atom is smallest element
- Not stable alone
- Atoms have no bonding

molecule

- molecule is made of ^{one or} two or more atoms
- stable alone
- molecules have inter-molecular forces and inter molecular forces