

WEEK BEGINNING FORECAST

UNIT-7

Topic- More about dissolving and other changes

Subtopics- L-1. Dissolving and solutions

L-2 Speedy solution

L-3 Using Solvent

L-4 obtaining pure water

Aids : Proposed to be used

Practical's and examples.

Home Tasks:

Draw the apparatus for distillation of water.

REVIEW:

I. Hard words:

1) Universal solvent

2) Alloys

3) Desalination

3) Distillation

3) Arabian Peninsula

4) Saturated

5) Evaporates

6) Stirred

7) Grinding

8) Crushing

9) Granulated

10) Acetone

11) Chromium

12) Nickel

II. Fill In the Blanks.

1. Water is a universal solvent
2. Modern aircraft are built using metals and metal alloys.
3. White spirit is a solvent for glass paints.
4. Most solids dissolve better in warm water than in cold water.
5. Solute can be obtained from a solution by evaporating the solvent.
6. Desalination plants produces clean drinking water.
7. The world's largest desalination plants are in the Arabian Peninsula.
- ✓ 8. Paint is a liquid mixture containing a colouring material.
9. A solvent is being added to the paint to make it flow easily.
10. In some hot countries salt is obtained by evaporating sea water.

III. Name the following.

1. A homogenous mixture of one or more substances.

Ans. Solution.

2. A substance that dissolves in a liquid to form a solution.

Ans: Solute

3. Rain ~~that~~ ^{is dissolved} has harmful acidic gases.

Ans: Acid rain

4. The liquid part of a solution

Ans: Solvent.

5. One example of insoluble substance

Chalk powder

IV. Match the following.

A

- 1) Distilled water
- 2) Acid rain contains
- 3) Grinding of solute (solid)
- 4) Solute
- 5) Acetone
- 6) White spirit

B

- a) Made from crude oil (6)
- b) Can be a solid, liquid or gas (4)
- c) Sulphurdioxide and nitrogen gas (2)
- d) A glue (5)
- e) Pure form of water (1)
- f) make it dissolve faster (3)

V. Questions and Answers.

Q.1. What are saturated solutions? Give one example.

Ans. A solution containing the maximum concentration of dissolved substances it can hold.

For Example.

1. Adding sugar to water until no more sugar will be dissolved

Q/A

Q.2. How can we make a solute dissolve faster.

Ans. We can make a solute dissolve faster by,

- 1. Stirring**
- 2. Maintaining particular temperature**
- 3. Grinding**

3. Q.4. How can water be useful as a solvent?

Ans: The following are some of the uses of water as a solvent:

- 1. Fish and other aquatic animals get oxygen from the gas dissolved in water they live in.**
- 2- water can be used for washing clothes.**
- 3- It is used for washing grease from utensils, floors and cars.**
- 4- Some paints use water as their solvent.**

4. Q.5. Give two examples of alloys.

- Ans: 1- Brass is an alloy of copper and zinc.**
- 2- Stainless steel is an alloy of chromium, molten steel and Nickel.**

5 Q.6. Mention the uses of distilled water.

Ans: The uses of distilled water are,

1- Distilled water can be used in car batteries and steam iron.

2- It is used for making medicines etc.

Q.6. What are the different methods of separating a mixture of a solid and a liquid?

Ans: Mixtures containing a solid and liquid can be separated by the following methods

1. Filtration

2. Evaporation

3. Distillation