

CLASS IX PRACTICALS FOR SUMMATIVE ASSESSMENT SA-1

Experiment 2. To prepare: a) A true solution of common salt, sugar and alum b) A suspension of soil, chalk powder and fine sand in water c) A colloidal of starch in water and egg albumin in water and distinguish between these on the basis of (a) transparency (b) filtration criterion (c) stability

Materials Required : Beaker (250 ml), glass rod, measuring cylinder, common salt, water, starch powder and black board chalk.

True solution of common salt, sugar and alum :-

Procedure :

1. Take 100 ml of water in a measuring cylinder and transfer it to a clean 250 ml beaker.
2. Add about 1 spoon of NaCl to it. 3. Stir it with the help of a glass rod a clear solution is formed.
4. The resulting solution is a true solution.

Precaution :

1. Common salt should be taken in powdered form.
2. Beaker and glass rod should be cleaned before the experiment.
3. Stirring should be done in such a way that glass rod does not strike against the sides of the beaker.

Suspension :-

Procedure :

1. Convert half piece of black board chalk into powdered form.
2. Take 100 ml water in a measuring cylinder and transfer it to a 250 ml beaker.
3. Add powdered chalk to water. 4. Stir vigorously for 5 minutes.
5. The resulting mixture is suspension of chalk in water.

Precaution : 1. Chalk should be used in powdered form. 2. Beaker and glass rod should be cleaned before the experiment. 3. Stirring should be done in such a way that glass rod does not strike against the sides of the beaker.

Colloid :- 1. Take 5 g starch in a 250 ml beaker.

2. Add a few drops of water to it and mix with a glass rod to make paste.
3. Add 100 ml of water to it with the help of measuring cylinder.
4. Heat gently with constant stirring till mixture appears without any visible suspended particle.
5. The resulting mixture is colloid of starch in water.

Precautions : 1. Starch should be taken in the form of fine powder.

2. Beaker and glass rod should be cleaned before the experiment.
3. Stirring should be done in such a way that glass rod does not strike against the sides of the beaker.
4. Heating of beaker should be done on wire gauge only.