

Separation of Substances

Practice sheet

Time : 20 minutes

Maximum marks : 10

Instructions

- This test contains 6 questions.
- Q.1 to Q.3 are one-mark questions, to be answer in about one word or one sentence.
- Q.4 & Q.5 are two-marks questions, to be answer in about 50 words.
- Q.6 is three-marks question, to be answer in about 80 words.

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1. What is the purpose of separation of stones from the rice?
 2. What are the edible parts of grains with stalks and state the method of separation ?
 3. Name the process by which we can separate seeds and pulp from fruit juice.
 4. Define filtration?
 5. What is the principle of sieving?
 6. What happens when a saturated solution of substances is (a) heated (b) cooled? Explain.

Practice sheet solutions

1. The purpose of separation of stone from the rice is to remove the impurities or harmful components from the rice.
2. Edible part is grains and non-edible part is stalks. The method of separation of grains from the stalks is threshing.
3. By the process of filtration, we can separate seeds and pulp from fruit juice.
4. Filtration is very commonly used method for separation in which insoluble solid are separated from the liquid with the help of strainer or filter paper. Liquid is collected at the bottom and the solid is collected at the top of the filter paper or strainer.
5. Sieving is the process in which the bigger particle impurities present in flour are separated from the flour through sieve. The bigger particle remains on the sieve and the flour particles pass through the holes of the sieve.
6. (a) When a saturated solution of substance is heated the solubility of solution increases. This means more solute can be dissolve in the solution.
(b) While if the solution is cooled, its solubility decreases.