

## Worksheet for chapter 5) : - Separation of Substances

The following questions are important for your exams for 1 mark 2 mark or 5 marks. First solve the questions on your own and then saw the solution for understanding it better.

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### Practice worksheet for class 6

#### Section A

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**Q.1.) what is mixture**

→ Two or more elements combined to form a mixture.

**Q.2.) Enlist the methods of separation?**

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- Hand picking
- Threshing
- Winnowing
- Sieving
- Sedimentation
- Filtration
- Decantation

**Q.3.) what is the purpose of separation of stones from the rice?**

→ The purpose of separation of stone from the rice is to remove the impurities or harmful components from the rice.

**Q.4.) what are the edible parts of grains with stalks and state the method of separation ?**

→ Edible part is grains and non-edible part is stock. The method of separation of green from the stock is threshing.

**Q.5.) define hand picking method.**

→The process of separation of pieces of Dirt, stone, and husk from the grains like wheat, rice etc. by hand is called as hand-picking method.

**Q.6.) when the hand-picking method is convenient to use ?**

→The hand-picking process is used when there are larger size of impurities like stone pieces of Dirt and husk are present in grains. When the quantity of impurities is not very large, in such situation and picking method is convenient to use.

**Q.7.) define threshing?**

→The process in which stocks are beaten to separate the grain seeds from it is called as threshing.

**Q.8.) define winnowing ?**

→The process of separation of heavier or lighter components from the mixture by wind or by blowing air is called as winnowing.

**Q.9.) define sieving?**

→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.

**Q.10.) what is a sedimentation?**

→When the heavier component in a mixture settles after water is added to it is called as sedimentation.

**Q.11.) define decantation ?**

→The process of removing water along with the dust particles is called as decantation.

**Q.12.) what is filtration?**

→Filtration is very commonly used method for separation in which solid part or heavier particles are separated from the liquid part with the help of sieve or strainer or some filtration paper.

Liquid part is collected at the bottom and the solid part is collected at the top.

**Q.13.) what is evaporation?**

→The conversion of water into its vapor is called as evaporation.

**Q.14.) what is condensation?**

→The process of conversion of water vapor into its liquid form please call as condensation.

**Q.15.) when the solution is said to be saturated?**

→The solution is saturated when it cannot dissolve more quantity of substance in it then the solution is called as saturated one.

**Q.16.) Define solution ? Give one example?**

→Solution is a mixture of two or more substances in it.

Example- when sugar is added in water , sugar gets dissolve in water and this is a sugar solution with water.

**Q.17.) what happen after adding of some salt in its saturated solution ?**

→The saturated solution is the one which cannot dissolve more substance in it. Hence if we add some salt in a saturated solution it will not get dissolve in that solution it remains Undissolved.

**Q.18.) which methods is used to separate salt from sea sand?**

→To separate the Salt from sea sand the methods are used are as follows.

Decantation, filtration, evaporation, and condensation are the methods used to separate salt from sea sand.

**Q.19.) write the names of the separating methods for the following conditions.**

- Separation of husk from wheat.
- Separation of tea leaves from tea.
- Separation of stalks from grains
- Separation of impurities from flour.
- Separation of Salt from salt water.
- Separation of butter from milk

→Answers:-

- Hand picking
- Filtration
- Threshing
- Sieving
- Evaporation and condensation
- Churning

**Q.20.) explain how the salt is separated from sea sand?**

→ The mixture of salt and sea sand is added in water and allowed to settle down. After sometime solid Sand particle settled at the bottom this sand with water separated by decantation process. And then the salt is separated through evaporation method.

**Q.21.) what we should do when we have no more solvent but we have to dissolve to more spoons of salt in a saturated solution for completion of reaction ?**

→When the solution is saturated that means it does not allow to dissolve more solvent in it. But in case if we had no solvent left, we can heat the solution so then it's solubility increases and we can add more solid particles to dissolve in it.

**Q.22.) why there is need to separate different components of a mixture.**

→There may be many reasons to separate the components from a given mixture. In case to remove the impurities from the mixture we must separate some components from the mixture. To remove inedible part from the mixture we must separate it out. Ina sab cases we must separate both parts which are edible to us.

There is different example of separation of components from a mixture.

- Separation of tea leaves from tea. In this case tea leaves are in edible and tea is edible part so we throw out the useful part.
- Separation of butter from milk, in this case both are useful component.
- Separation of stone from rice, in this case we are removing impurities from the rice.

**Regards,**

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