

CHEMISTRY

BOOKS - V PUBLICATION

MIX AND SEPARATE

Question Bank

1. Observe the materials given below. i) How can you separate the components if A and B get mixed? ii) How can you separate the

components if A and C get mixed? lii)How can you separate the components if A and D get mixed?



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2. Using which equipment will you get water with maximum purity while filtering muddy water? Why? a) Cloth b) Filter paper c) Tea strainer



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3. How does pure water differ from sugar solution based on the constituents present in them?



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4. Gold ornaments are manufactured by using a of gold and copper.



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5. Milk is



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6. Salt in the salt solution is



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7.is separated by the method of
decantation



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8.is the solvent In soda.



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9. Sugar solution a ... type of mixture.



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10. The substance which is soluble in water



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11. is the method used for the separation of salt from sea water



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12.have two or more than two substances mixed in them



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13. Oxygen is substance.



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14. Find the odd one. 1. Sugar, Copper, Tea,
Gold



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15. Soil with organic matter, Rubble, Air,
Common salt



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16. Sublimation, Evaporation, Filter paper,
Distillation



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17. Contains more than one component. The
components are not in a fixed ratio, Shows the
property of components, Does not show the
property a components





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18. Rice water, Paint, Chalk powder, Gum arabic.



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19. Given some sugar and sugar solution What is the difference between them



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20. Appu put some sugar into a vessel containing water and stirred. He tasted sugar solution from different parts of the vessel. There was no difference in taste. What was the Inference of Appu?



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21. A fair coin is tossed four times and a person win Re 1 for each head and lose Rs. '1.50' for each tail that turns up. From the

sample space calculate how many different amounts of money you can have after four tosses and the probability of having each of these amounts.



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22. Write down the methods Using the opportunity given below. 1. Any one component is very light 2. If the Insoluble component is heavy 3. To separate Insoluble

solid particles. 4. To separate solution In which solute does not evaporate.



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23. How do you separate the components from a mixture of Iodine, Iron filling and salt.



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24. How to purify drinking water in water filter?



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25. What are the properties of solutions



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26. What is known as heterogeneous mixture?

Write an example



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27. Reagents which attack organic compounds may be classified as electrophiles, nucleophiles and free radicals. Explain nucleophiles and electrophiles with suitable examples.



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28. Write a short note about the following.

A. Sedimentation and Decantation b.

Filteration



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29. How to collect common salt from sea water?



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30. Which separation techniques will you apply for the separation of the following? a. Sodium chloride from its solution in water. b. Small pieces of metal in the engine oil of a car. c. Different pigments from an extract of flower petals. d. Butter from curd. e. Oil from water. f.

Tea leaves from tea. g. Iron pins from sand. h.

Wheat grains from husk.



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31. What is the Importance of evaporation?

Where is this technique used on a large scale

?



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32. Why Is the separation of a mixture done?



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33. What are the commonly used technique used by farmers in villages to purify food grains?



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34. Give two examples of solutions containing a non-volatile component and a volatile

component. How will you obtain non-volatile component from such a solution?



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35. Describe the process of filtration.



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