Science Test Paper

1. Which of the following statements is true about mixtures?
I. A mixture is made up of solid substances of the same size and shape.
II. A mixture is made up of two or more different substances which are not chemically combined.
III. The substances in a mixture usually can be separated using physical methods.
IV. The substances in a mixture retain their physical properties.
A. I, II and III
B. I, II and IV
C. II, III and IV
D. I, II, III and IV

2. Which of the following is a mixture?
A. Sand
B. Iron
C. Gold
D. Salt water

3. Mali has a mixture of fine sand and small stones. What technique can she use to separate the fine sand from the stones?
A. Filtration
B. Magnet attraction
C. Sifting
D. Decantation

4. Which of the following mixtures can be best separated by magnetic attraction?
A. Sugar and pepper
B. Oil and water
C. Wood chips and stones
D. Iron and sulfur

5. We can use a _____ to separate a mixture of sand and salt solution.
A. sieve
B. magnet
C. alum
D. filter paper

6. What is the technique that can be used to separate cherry tomatoes from nuts?
A. Filtration
B. Precipitation
C. Handpicking
D. Decantation

7. Sifting is used to separate a mixture of different sized _____
A. sediments
B. solids
C. liquids
D. gases

8. The diagram shows the set-up of the apparatus of a separation technique.

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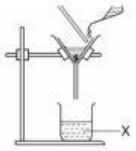

What is represented by X?

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A. Residue
B. Filtrate
C. Precipitate
D. Alum

9. What name is given to the solid which collects in the filter paper during filtration?
A. Filtrate
B. Residue
C. Distillate
D. Precipitate

10. Decantation is used to _____.
A. separate a liquid from a soluble solid
B. separate a liquid from an insoluble solid
C. separate a mixture of two liquids
D. separate solids of different sizes

11. Which of the following techniques can be used to separate an insoluble solid and a liquid?
I. Decantation
II. Filtration
III. Sifting
IV. Precipitation
A. I and II
B. II and IV
C. I, II and III
D. I, II and IV

12. Which of the following statements is true about precipitation?
A. Using layers of different stones and sand
B. Allowing the solid in a liquid to settle to the bottom of a container before the liquid is poured off the top
C. Allowing water to evaporate, leaving a solid residue behind
D. Converting a substance that dissolves in a liquid into a solid by adding other substance

13. If you want to remove soil, dust and leaves from water, which method would you use?
A. Precipitation
B. Filtration
C. Decantation
D. Sifting

14. Somsak makes some coffee with a coffee maker. Which tool would best be used to separate the coffee grounds from the coffee drink?
A. Strainer

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B. Filter paper
C. Colander
D. Perforated plate sieve

15. In the water treatment process, the raw water is treated with a chemical to precipitate the dirt and bacteria in the water. What is the chemical used?
A. Alum
B. Chlorine
C. Vinegar
D. Limestone

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