

6.3 Mixtures pg. 144

1. A. List some household products that we use every day that are made of many substances.(3 marks)

B. What are some of the substances that are part of the above mentioned products?(2 marks)

2. A. What are mechanical mixtures?(2 marks)

B. Provide 2 examples.(2 marks)

3. A. What is a suspension?(2 marks)

B. Provide 2 examples.(2 marks)

C. What may happen to suspensions if not stirred for a while?(1 mark)

4. A. Fresh farm milk is actually a what?(1 mark)

B. Why doesn't commercial(store bought) milk not separate like fresh milk, taken directly from the cow?(2 marks)

C. What is an emulsion and how is an emulsion related to a suspension?(2 marks)

5. A. What are solutions?(2 marks)

B. Why can you not even see the stuff mixed in a solution under a microscope?(2 marks)

C. Provide 3 examples of a solution?(3 marks)

6. Complete questions 2 - 4 on the bottom of page 146, "Model of a Solution" in the spaces below. You are not physically doing this experiment, but what would you expect to find? Think about this while answering.

7. Neatly draw the Matter Tree from pg. 147 in the space below...neatness counts.

6.4 Separating Mixtures pg. 148

8. What sorts of things may be in water taken from a river? Some may be toxic and harmful...some are mentioned in the book...there may be factories around, farms, etc..(½ mark each, total 3 marks)

9. A. What is "Picking Apart" a mixture?(1 marks)

B. List items that may be in a junk drawer?(4 marks)

C. When is it fine for Picking Apart, and why do we not normally do this for large quantities?(2 marks)

10. A. What is filtering? Fully explain.(3 marks)

B. Please explain what each filter does?

i) Window screens at home:

ii) Air filter on furnace:

iii) Air filter in car engine:

iv) Painter masks:

v) Tea bag:

vi) Coffee filter:

C. If the holes in filters are small enough, filters can separate solids from what?(2 marks)

D. There is no filter in the world that can separate what?(1 mark)

11. A. How can the density of things help separate mixtures? Please explain.(2 marks)

B. Provide an example and describe how density helps separate the different things.(2 marks)

12. A. How can magnetism help separate things? Please explain with an example.(2 marks)

B. When would magnetism be quite useless or very limited?(2 marks)

13. A.What is dissolving?(1 mark)

B. If you were trying to separate a mixture of sand and table salt, what could you do? Fully explain.(3 marks)

14. A. How could one use evaporation to separate the water from a cup of orange juice?(2 marks)

B. What would be left in the cup after evaporation was complete? Explain.(2 marks)