

Student Name \_\_\_\_\_

Part AMultiple choice. Choose the **best** answer.1) Which property of matter doesn't change? Its 1) weight 2) volume  mass 4) shape*changes with temp'*2) When water forms ice there is no change in1) form  composition 3) appearance 4) energy*Depends on gravity*3) Which of the following is the smallest group of elements?1) Metals 2) Nonmetals  Metalloids  4) Omnimetals4) Metals can be pulled to form wires. This property is called1) malleability  ductility 3) flexibility 4) conductivity*"hammerable" "Wireable"*5) Which of the following has a variable (indefinite) composition?1) sugar 2) water 3) sodium chloride  soda*Compounds**Mixture*

6) Metals are usually

1) brittle 2) good insulators 3) dull  silver-gray colored*NonMetals*7) **Hg** is the symbol for 1) hydrogen  mercury 3) hydrarium 4) hafnium*TABLE 5*8) The symbol for lead is 1) Ld 2) Le  Pb 4) Pd*Plumber*9) When water is electrolyzed using the Hoffmann Apparatus, the gas collected in greatest quantity is hydrogen 2) oxygen 3) water vapor 4) carbon dioxide.10) The process that can be used to separate water from a solution is called1) chromatography  distillation 3) filtration 4) electrolysis.*sep' based on solubility b.p. insoluble stuff gets trapped*Part B

Indicate whether the following is a physical change (1), chemical change (2), neither (3), or both (4).

1) Crystals are crushed in a mortar. 12) Zinc fizzes in acid. 23) Salt dissolves in water. 1

14) Universal indicator turns blue in base. 2

*Green → Blue*

Identify the following as a physical property (1), chemical property (2), neither (3), or both (4).

15) Ethanol is flammable. 2

16) Zinc melts at 420 °C. 1

17) Oxygen is a gas at room temperature. 1

18) Copper sulfate reacts with lead nitrate to produce a white solid. 2

19) Mixtures are made by a \_\_\_\_\_ change and are broken down by a \_\_\_\_\_ change.

1) chemical \ physical

2) physical \ physical

3) chemical \ chemical

4) physical \ chemical

Compounds

20) Which substance can be decomposed by a chemical change?

1) Iron 2) sodium chloride 3) chromium 4) calcium

a compound

1, 3, 4 } are elements, can't be decomposed

21) Many companies manufacture iced tea (mix). Which of the following is false?

1) Its composition is the same in every sample.

2) Some samples may contain more sugar than others.

3) Some samples may contain more salt than others.

4) There is no set formula for iced tea.

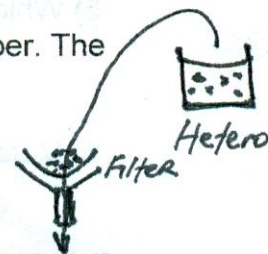
22) 100 grams of a liquid is filtered leaving a few grams of solid trapped in the paper. The original liquid was a

1) heterogeneous compound

2) heterogeneous mixture

3) homogeneous compound

4) homogeneous mixture



23) Air is an example of 1) a pure substance 2) a gaseous solution 3) a heterogeneous mixture 4) a compound

"Homomix"



24) Which of the following will completely separate salt from water?

1) Allow the salt to settle to the bottom of the beaker.

2) Trap the dissolved salt with filter paper.

3) Boil off the water.

4) Use a magnet to grab the dissolved salt.

25) Which of the following is not an example of matter?

1) air

2) light

3) wind

4) water

Energy