NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GRADED PRACTICE: UNIT 1 (Part 1 and a little Part 2)

DIRECTIONS: Answer every question on this sheet by selecting the most appropriate response to each question. Use your grasp of the class discussions, notes, friends, the internet, the blog ([www.scientiaestubique.com](http://www.scientiaestubique.com)). Have this turned in, on Monday 19 February.

The following questions are all “multiple – multiple choice” questions. This means that there are only three choices – **but one, two or all three may be correct**. Use the following selections as your response.

**1) when only choice I is correct**

**2) when only choice II is correct**

**3) when only choices I and II are both correct**

**4) when only choices II and III are both correct**

**5) when I, II, and III are each correct**

For example: Which of the following accurately describe(s) some aspect of Tom DiGaetano?

I) Tom wears glasses II) Tom teaches and WCSU III) Tom is 6 feet 9 inches tall

Choices I and II are both true. Choice III is just downright untrue. Thus, **the answer is 3** (when only choices I and II are both

correct)

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\_\_1) Which of the following formulae represent(s) an organic compound?

I) NaCl(s) II) C2H6(g) III) CH3CH2OH(ℓ)

\_\_2) Which of the following may be used to represent the formula of a compound?

I) O3(g) II) NaHCO3(s) III) Fe(s)

\_\_3) Which of the following may be considered to be some sort of mixture?

I) AuCl3(s) II) toothpaste III) NaCl(aq)

\_\_4) Which of the following approaches are used to separate the components of a petroleum oil mixture, based

upon the differences in boiling points?

I) distillation II) filtration III) crystallization

\_\_5) Which of the following may be classified as, matter?

I) helium gas II) water III) sand

\_\_6) Which of the following may be classified as, matter?

I) light II) glass III) sound

Use the following selections as your response to each question.

**1) when only choice I is correct**

**2) when only choice II is correct**

**3) when only choices I and II are both correct**

**4) when only choices II and III are both correct**

**5) when I, II, and III are each correct**

\_\_7) Which of the following statements is accurate?

I) In a closed system in which a chemical reaction occurs, the mass is conserved.

II) For a chemical reaction to occur there must be new bonds made, or some sort of change to the

electron clouds of various chemical species.

III) When added to water, acids tend to increase the concentration of H+1 or H3O+1 ion.

\_\_8) The measurement of which physical characteristic(s) help(s) to differentiate between a sample of gold and

a sample of copper?

I) take the temperature II) determine the density III) determine the melting point.

\_\_9) Which of the choices may be classified as a chemical reaction?

I) SiO2(s) + 4 HF(g) → SiF4(g) + 2 H2O(ℓ)

II) 2 C8H18(g) + 15 O2(g) → 16 CO2(g) + 18 H2O(g)

III) NaOH(s) + H2O(ℓ) → NaOH(aq)

\_\_10) Which may be considered to be an Arrhenius Base when dissolved in water?

I) NaOH II) CH3OH III) HCl

OKAY! So many would find these more difficult. You, yourself, may be dithering over a question or two. So, if you want to, you can type up your thoughts about a few questions. Something like … “I am really struggling with question “ ”, because choice II and choice III seem so close. …. Describe your problem using definitions and such, and I will take it into consideration. Turn it in with your answer sheet.

NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GRADED PRACTICE: UNIT 1 (Part 1 and a little Part 2)

Place every answer on this sheet. Staple and comments to this sheet. Please, be sure to place an “X” through the choice you wish to have scored. You may circle choices, but “X” your actual answer. Do not scribble out choices unless absolutely necessary.

For instance:

1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5

Perfect. Your answer is 4 Not appropriate, there is no X Great! I know you want 4 Not great. You’re asking me to interpret

1) 1 2 3 4 5

2) 1 2 3 4 5

3) 1 2 3 4 5

4) 1 2 3 4 5

5) 1 2 3 4 5

6) 1 2 3 4 5

7) 1 2 3 4 5

8) 1 2 3 4 5

9) 1 2 3 4 5

10) 1 2 3 4 5