NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GRADED: COMPOUNDS II:

**PLEASE READ THIS**: This is NOT a quiz! It is however, graded & it is independent work.

* Scatter your seating, so you are “alone” at a table or a lab station.
* Grab your notes, your worksheets, your reference tables (or a textbook), and **engage … circle terms … reinterpret with short interpretations ….**
* **Take about 20 minutes, work quietly and independently… Go, Go Gadget Thinkers!**

**Questions 1 – 3 each have ONLY 1 correct answer**

Please place your answer

in the space next to

each question.

\_\_\_\_1) What is the name given to the branching connections that one nerve cell makes to another?

1) soma 2) axon 3) myelin sheath 4) dentrites

\_\_\_\_2) What is the name given to the longer, almost barrel-like portion of a nerve cell? Schwann cells often

partially wrap this part of the nerve cell.

1) soma 2) axon 3) myelin sheath 4) dentrites

\_\_\_\_3) What name is collective name, given to the fatty Schwann cells that are found on certain nerve cells,

like the optic nerve?

1) soma 2) axon 3) myelin sheath 4) dentrites

**Questions 4 – 9 may have one or more correct responses I, II, and III. You should then choose the selection 1 – 5 which best reflect the correct response(s)**

\_\_\_\_4) Which of the following correctly describe(s) the neurotransmitter, **serotonin** **(C10H12N2O) ?**

I) an organic compound II) has covalent bonds III) a molecular compound

1) only I is correct

2) only II is correct

3) only I and II are correct

4) only II and III are correct

5) I, II, and III are each correct

\_\_\_5) Which of the following correctly describe(s) **hydroxyapatite**, **Ca10(PO4)6(OH)2** found in human bone?

I) organic compound II) inorganic compound III) ionic compound

1) only I is correct

2) only II is correct

3) only I and II are correct

4) only II and III are correct

5) I, II, and III are each correct

\_\_\_6) Given: H2O(l) which of the following correctly describe(s) the substance?

I) a molecular compound II) has covalent bonds III) an organic compound

1) only I is correct

2) only II is correct

3) only I and II are correct

4) only II and III are correct

5) I, II, and III are each correct

\_\_\_7) Which of the following is / are correctly described as an **ORGANIC, MOLECULAR** compound?

I) CuS II) CH4 III) NaHCO3

1) only I is correct

2) only II is correct

3) only I and II are correct

4) only II and III are correct

5) I, II, and III are each correct

\_\_\_8) Which of the following is a /are reasonable inference(s) given the work of our course?

I) Metal ions bonded to Nonmetal ions produce an ionic compound (m+/nm-)

II) Nonmetal atoms bonded to Nonmetal atom produce a molecule (nm/nm)

III) All ionic compounds are inorganic compounds, but not all inorganic compounds are ionic.

1) only I is correct

2) only II is correct

3) only I and II are correct

4) only II and III are correct

5) I, II, and III are each correct

\_\_\_9) Which of these, when dissolved in water, results in a solution of electrolytes?

I) C12H22O11 II) KCl III) CaBr2

1) only I is correct

2) only II is correct

3) only I and II are correct

4) only II and III are correct

5) I, II, and III are each correct

**NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ You can rip off this sheet and hand it in separately.**

**BONUS:** Defend your response to ONE of the questions #’s 4 - 9. Be sure to complete a “because” statement which **references a definition, an observation, a recognition skill, data**etc… **for each choice.** Tell us why you think your response is correct, and why any unselected choices is/are INcorrect … Explain your thinking.

**For a bonus, I am selecting my response to question # \_\_\_\_\_\_ to defend.**

I said that the answer is ➊ ❷ ➌ ➍ ❺ because:

(please circle one)

**Choice I) is correct / incorrect because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**(please circle one)**

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**Choice II) is correct / incorrect because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**(please circle one)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Choice III) is correct / incorrect because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**(please circle one)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**