TEST NAME: PSc 4.2 Metallic Bonding Spring 2018

TEST ID: 2251294

GRADE: 09 - Ninth Grade - 12 - Twelfth Grade

SUBJECT: Life and Physical Sciences

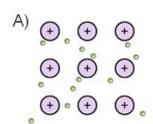
TEST CATEGORY: School Assessment

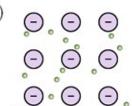
03/07/18, PSc 4.2 Metallic Bonding Spring 2018

Student:
Class:
Date:

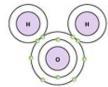
- A cook is presented with dishes made of copper, clay, plastic, and glass. The cook selects the **copper pot** because she does most of her cooking on the stove.
 - A Copper is ductile and can be stretched to cook the food.
 - B. Copper is conductive and will absorb heat to cook the food.
 - C. Copper is malleable and can be manipulated to cook food.
 - D. Copper is shiny and reflects light, which will cook the food.

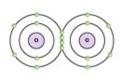
2 Which diagram(s) represents the bonding pattern of metals?











- A A
- B. B
- C. C
- D. D

- ^{3.} The electrons in the valence shell of many atoms do not leave the atom because the protons in the nucleus attract the electrons. However, in metals,
 - A electrons attract electrons of other elements
 - B. protons attract protons of other atoms.
 - C. protons can flow from one atom to another.
 - D. electrons can flow from one atom to another.

4. The electrons between atoms in metallic bonds

- A allow for bonding metals to be stable as they are shared between all metal cations.
- B. allow for bonding metals to be reactive as they are shared between all metal anions.
- C. are stationary and provide durability to the metal.
- D. are attracted to the neutrons of the metal.

5. In metals, the properties of malleability and ductility are explained by the fact that metallic atoms can

- A conduct electricity by constantly moving electrons.
- B. stretch and bend without breaking their bonds.
- C. bounce light off of their sea of electrons.
- D. roll past metallic bonds and form new bonds.