

Hwa Chong Institution

Chemical bonding (Worksheet 4)

Section A:

Answer 'True' or 'False' to the following statements.

| Question | T/F |
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| Metallic bonding is a kind of ionic bonding because ionic bonds exist between the cations and the delocalized electrons. | F |
| Metallic bonding involves electrons being shared; hence it is a kind of covalent bonding. | F |
| Metals are malleable because the atoms can slide over each other easily when a force is applied. | T |
| Metals are malleable because the forces of attraction between metal atoms are weak. | F |

In a metal, the electrons are able to move freely and randomly among the ca²⁺

the following molecules: (1) $\text{H}_2\text{C}_2\text{N}_2$, (2) F_2 , (3) Cl_2

4. Write the Lewis structures of t

