AP BIOLOGY BIOCHEMISTRY ACTIVITY #1

| NAME |      |
|------|------|
|      |      |
| DATE | HOUD |

## **CHEMICAL BONDS**

| DEFINITION/DESCRIPTION:                 |  |
|---|--|
|   |  |
| TYPES:                                  |  |
| 9 p ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) |  |

## TYPES:

## QUESTIONS:

| Define the following terms:  |  |
|--|--|
| Valence<br>Electron  |  |
| Valence<br>Shell   |  |
| How is the chemical behavio configuration?                         | r of an atom determined by its electron  |
|  |  |
| Why do atoms form chemica  | Il bonds?  |
|  |  |
| Identify the type of bond debelow to indicate your answer          | scribed in each of the following. Use the key ers.   |
| <ul><li>A. Covalent, polar</li><li>B. Covalent, nonpolar</li></ul> | C. Hydrogen<br>D. Ionic  |
| Strongest bonds  |  |
| Weakest type of bor  | nd   |
| another  | e complete transfer of electrons from atom to e equal sharing of electrons between two atoms |
| Bonds formed by the  | e unequal sharing of electrons between two   |
| atoms Attraction between o   | ·  |
| Attraction between of molecules                                    | oppositely charged portions of two different polar   |
| Attraction between o   | ·  |

| ect term.  A. Anion                  |
|--------------------------------------|
|                                      |
| D. Callar                            |
| B. Cation                            |
| C. Ion                               |
| tween the atoms in each of the follo |
| ed Chemical Bond # of e- s           |
| N≡N                                  |
| H-C                                  |
|                                      |