

# "CHEMICAL BONDING"



8 electron



6 electron

↓  
Short octet.  
Group IIIA element  
in compound form  
show short octet.



10 electron

extended octet.

a)  $\text{NH}_3$

b)  $\text{SO}_2$

c)  $\text{AlCl}_3$

d) B and C

- SHORT OCTETS ARE ALWAYS LEWIS ACID.
- EXTENDED OCTETS MAY OR MAY NOT BE LEWIS BASE.

## ENERGETICS OF BOND FORMATION:

### Formation

$$\Delta H = -ve$$

Energy released

So overall energy less

So stability occurs.

Bond length

or  
Bond distance

or  
compromise bond distance.

### Breakage

$$\Delta H = +ve$$

Heat absorbed.

Overall energy increases

Stability loses.

# Chemical Bonding Notes And Study Guide Answers

**Mr. Rohit Manglik**



## **Chemical Bonding Notes And Study Guide Answers:**

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