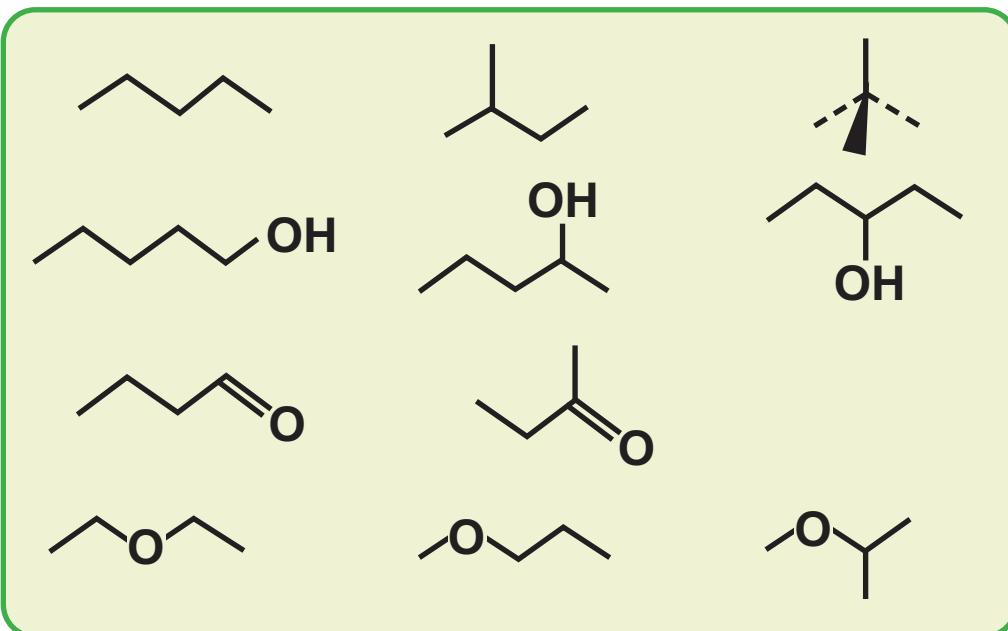


# **CONSTITUTIONAL ISOMERIS**

# **CONSTITUTIONAL ISOMERISM [STRUCTURAL]**



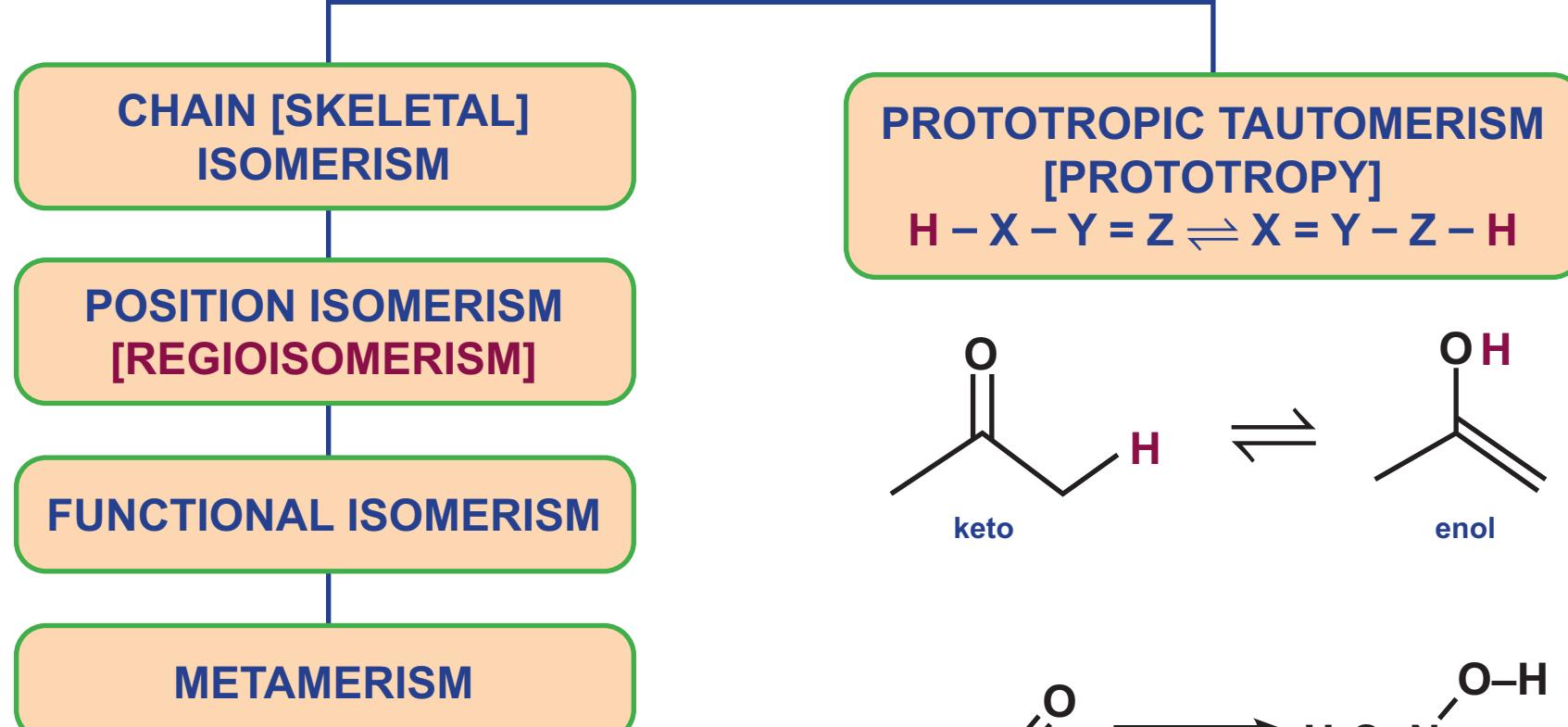
### **Pair of functional isomers:**

- Alcohols and ethers ( $C_nH_{2n+2}O$ )
  - Aldehydes and ketones ( $C_nH_{2n}O$ )
  - Carboxylic acids and esters ( $C_nH_{2n}O_2$ )
  - $1^\circ$ ,  $2^\circ$  &  $3^\circ$  amines ( $C_nH_{n+1}N$ )

$$\text{DBE} = \frac{\sum n (\nu - 2)}{2} + 1 = \text{sum of no. of } \pi \text{ bonds + rings}$$

## in the molecule

(n is no of atoms of particular element & v is corresponding valency in given molecule).



- Q.** The number of structural isomers possible from the molecular formula is [NEET 2015 (Re)]  
(a) 4      (b) 5      (c) 2      (d) 3

**Q.** Identify the compound that exhibits tautomerism  
(a) 2-Pentanone      (b) Phenol  
(c) 2-Butene      (d) Lactic acid

**Q.** The number of structural isomers for  $C_6H_{14}$  is  
(a) 3      (b) 4      (c) 5      (d) 6

