



## SOLUTION

1. **Ans. (1)**
2. **Ans. (3)**  
Then is no catalyst is required for combustion of coal.
3. **Ans.(3)**  
$$\text{B}_2\text{H}_6 + 3\text{H}_2\text{O} \longrightarrow 2\text{H}_3\text{BO}_3 + 3\text{H}_2$$
$$\text{B}_2\text{H}_6 + 3\text{O}_2 \longrightarrow \text{B}_2\text{O}_3 + 3\text{H}_2\text{O}$$
Correct option : (3)
4. **Ans. (1)**  
Quartz (Information)
5. **Ans.(2)**  
Kieselguhr is amorphous form of silica, it's a fact

6. **Ans.(1)**  
All statements are correct  
 $\text{B}_2\text{O}_3 \rightarrow$  acidic  
 $\text{Al}_2\text{O}_3$  &  $\text{Ga}_2\text{O}_3$  are amphoteric  
oxides of In & Tl are basic
7. **Ans.(1)**  
As we move down the group, bond strength decreases, thereby decreasing the catenation tendency.  
Hence the order is as expected  
 $\text{C} > \text{Si} > \text{Ge} \approx \text{Sn}$
8. **Ans.(3)**  
water gas =  $\text{CO} + \text{H}_2$   
is also called syn gas because it is used for synthesis of methanol.