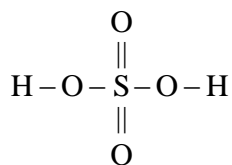






Ans: 1

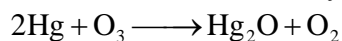
Sol: 6 $\sigma$  and 2 $\pi$  bonds

13. What is the product formed when ozone reacts with mercury? [EAMCET 2001 M]

1. HgO                      2. Hg<sub>2</sub>O<sub>2</sub>                      3. Hg<sub>2</sub>O                      4. HgO<sub>2</sub>

Ans: 3

Sol: Ozone reacts with mercury gives mercurous oxides



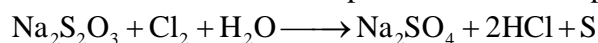
This process is called tailing of mercury because mercury sticks to the walls of the container

14. What are the products formed when chlorine is passed through aqueous hyposulphate

[EAMCET 2001 E]

1. Na<sub>2</sub>SO<sub>3</sub> + HCl + S                      2. Na<sub>2</sub>SO<sub>3</sub> + SO<sub>3</sub> + HCl  
 3. Na<sub>2</sub>SO<sub>4</sub> + HCl + S                      4. Na<sub>2</sub>SO<sub>4</sub> + HCl + SO<sub>2</sub>

Ans: 3

Sol: Cl<sub>2</sub> oxidises sodium thiosulphate to sodium sulphate

15. Which of the following has more acidic character? [EAMCET 2000 M]

1. H<sub>2</sub>O                      2. H<sub>2</sub>Te                      3. H<sub>2</sub>S                      4. H<sub>2</sub>Se

Ans: 2

Sol: In VIA group hydrides acidic character increases from H<sub>2</sub>O to H<sub>2</sub>PO

16. In which of the following compounds, oxygen exhibits an oxidation state of +2? [EAMCET 2000 M]

1. H<sub>2</sub>O                      2. H<sub>2</sub>O<sub>2</sub>                      3. OF<sub>2</sub>                      4. H<sub>2</sub>SO<sub>4</sub>

Ans: 3

Sol: Oxidation state of oxygen in OF<sub>2</sub> is + 2

\* \* \* \*