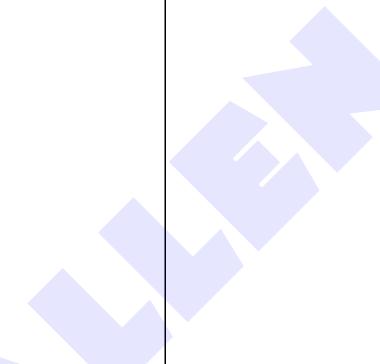
SALT ANALYSIS

- 1. Reaction of an inorganic sulphite X with dilute H₂SO₄ generates compound Y. Reaction of Y with NaOH gives X. Further, the reaction of X with Y and water affords compound Z. Y and Z, respectively, are:
 - (1) S and Na₂SO₃
 - (2) SO₂ and NaHSO₃
 - (3) SO₃ and NaHSO₃
 - (4) SO₂ and Na₂SO₃



Salt Analysis

SOLUTION

1. Official Ans. by NTA (2)

Sol.
$$Na_2SO_3 \xrightarrow{\text{dil. H}_3SO_4} SO_2 \xrightarrow{NaOH} Na_2SO_3 \xrightarrow{(X)} Na_1SO_3 \xrightarrow{\text{NaH SO}_3} Na_2SO_3 \xrightarrow{\text{NaH SO}_3} (Z)$$

