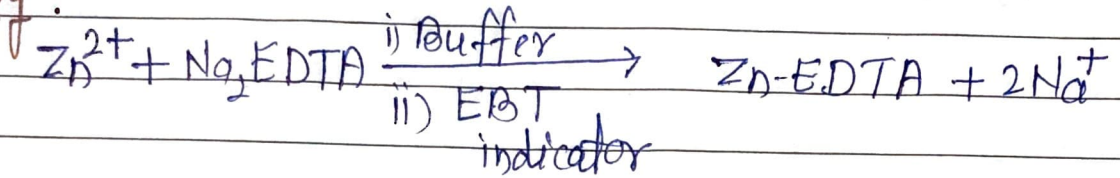
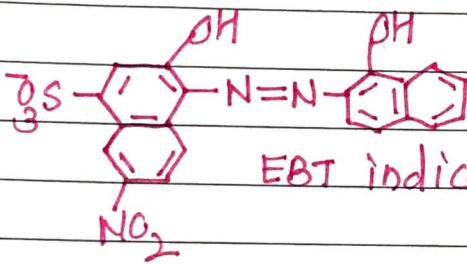
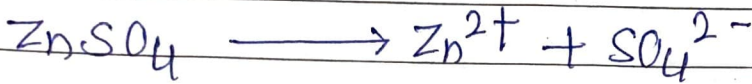


**Aim:** To estimate the strength of Zn(II) ions present in the given solution of zinc sulphate by using Na<sub>2</sub>EDTA ( $\sim \frac{M}{100}$ ) as an intermediate solution and EBT as an indicator.

**Theory:**



**Reaction Mechanism:**

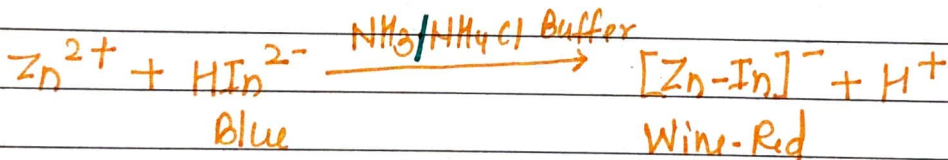


EBT indicator

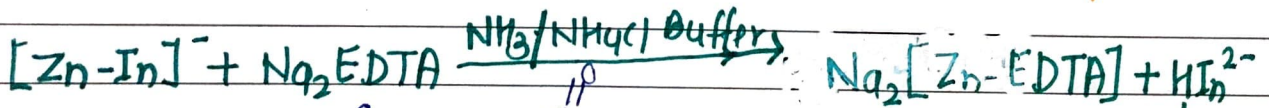
$\text{H}_2\text{In}^- \rightarrow \text{Red}$

$\text{HIn}^{2-} - \text{Blue}$

$\text{In}^{3-} - \text{Orange}$



(Metal indicator complex)



Blue colour

