

## REDOX REACTION

### Solved Examples

#### Example - 6 :



Base                  Acid

**Sol.** Valency factor of base = 1

Here, two molecule of NaOH replaced  $2\text{H}^+$  ion from the  $\text{H}_2\text{SO}_4$ . Therefore, each molecule of NaOH replaced only one  $\text{H}^+$  ion of acid, so v.f. = 1.

○ v. f. for acid is the number of  $\text{OH}^-$  replaced from the base by each molecule of acid

### Solved Examples

#### Example - 7 :



Base                  Acid

**Sol.** Valency factor of acid = 1

Here, one of molecule of  $\text{H}_2\text{SO}_4$  replaced one  $\text{OH}^-$  from NaOH. Therefore, valency factor for  $\text{H}_2\text{SO}_4$  is one

$$\therefore \text{Eq. wt. of } \text{H}_2\text{SO}_4 = \frac{\text{Mol. wt.}}{1}$$

○ Salts :

(a) In non-reacting condition

○ Valency factor = Total number of positive charge or negative charge present in the compound.

### Solved Examples

#### Example - 8 :

		$\text{Na}_2\text{CO}_3$	$\text{Fe}_2(\text{SO}_4)_3$	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$
<b>Sol.</b>	v.f.	2	$2 \times 3 = 6$	2
	Eq. wt.	$\frac{M}{2}$	$\frac{M}{6}$	$\frac{M}{2}$

(b) In reacting condition

### Solved Examples

#### Example - 9 :



Base                  Acid

**Sol.** It is an acid base reaction, therefore valency factor for  $\text{Na}_2\text{CO}_3$  is one while in non-reacting condition, it will be two.

(c) Equivalent weight of oxidising / reducing agents in a redox reaction

In case of redox change, v.f. = Total change in oxidation number per molecule.

# Redox Reactions Study Guide Answers

**JR Anderson**



## Redox Reactions Study Guide Answers:

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**Chemical Principles Student's Study Guide & Solutions Manual** John Krenos, Joseph Potenza, Loretta Jones, Lynn Koplitz, Thomas Spence, 2004-03-19  
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