

Master Math for JEE Main & JEE Advanced

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For JEE Main 2020 April



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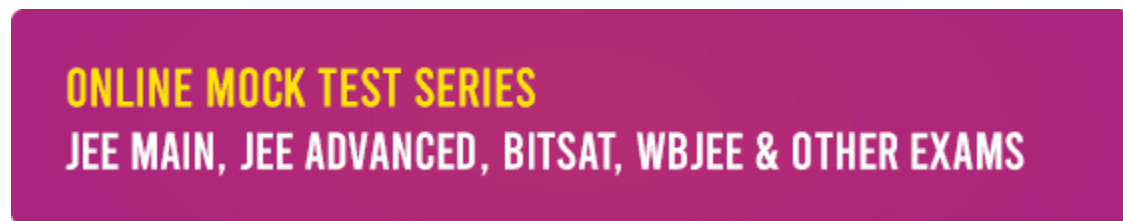
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JEE Mains 2020 Jan Chapter wise Question Bank

Redox Reactions

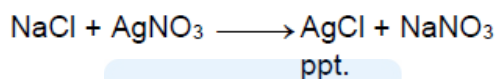
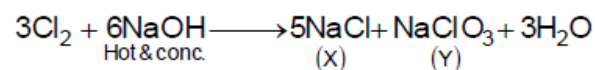
Q1

Cl_2 on reaction with hot & conc. NaOH gives two chlorine having products X and Y. On treatment with AgNO_3 , X gives precipitate. Determine average bond order of Cl and O bond in 'Y' ?

7th Jan Morning

Sol

01.67



Y is NaClO_3 ClO_3^- (bond order) = $\frac{5}{3}$

Q2

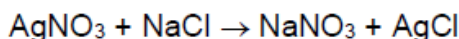
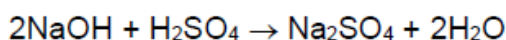
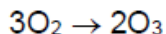
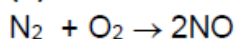
Amongs the following which is redox reaction ?

- (1) $\text{N}_2 + \text{O}_2 \xrightarrow{2000\text{K}}$ (2) Formation of O_3 from O_2
 (3) Reaction between NaOH and H_2SO_4 (4) Reaction between AgNO_3 and NaCl

7th Jan Evening

Sol

(1)

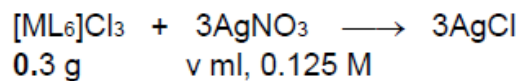


Q3

0.3 g $[\text{ML}_6]\text{Cl}_3$ of molar mass 267.46 g/mol is reacted with 0.125 M $\text{AgNO}_3(\text{aq})$ solution, calculate volume of AgNO_3 required in ml.

8th Jan Morning

26.92



$$\frac{0.3}{267.46} \times 3 = 0.125 \times V \times 10^{-3}$$

$$\text{or, } V = \frac{0.3 \times 3 \times 1000}{267.46 \times 0.125} = 26.92 \text{ ml.}$$

Q4

5 g of Zn reacts with

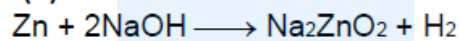
(I) Excess of NaOH (II) Dilute HCl, then volume ratio of H₂ gas evolved in (I) and (II) is

- (1) 2 : 1 (2) 1 : 2 (3) 1 : 1 (4) 3 : 1

9th Jan Evening

Sol

(3)



According to stoichiometry in both the reactions, equal number of moles of H₂ are evolved.

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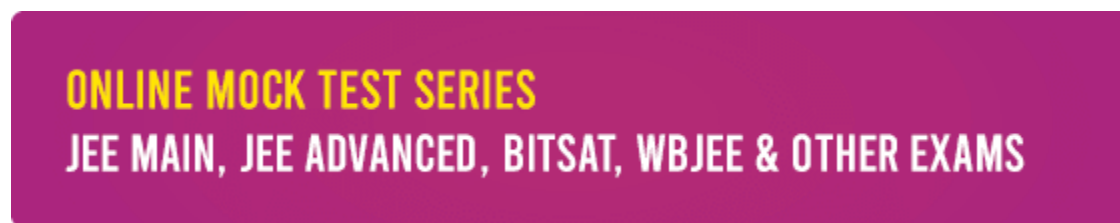
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