





CLASS : XIIth DATE :

SUBJECT : CHEMISTRY DPP NO. : 2

Topic :- REDOX REACTIONS						
1.	Sulphur has the highe a) SO <sub>2</sub>	st oxidation state in : b) SO <sub>3</sub>	c) H <sub>2</sub> SO <sub>3</sub>	d) H <sub>2</sub> S		
2.	Nitrogen has fractiona a) $N_2H_4$	al oxidation number in : b) NH <sub>4</sub>	c) HN <sub>3</sub>	d) $N_2F_2$		
3.	As the oxidation state a) Decreases	for any metal increases, b) Increases	the tendency to show ic c) Remains same	onic nature: d) None of these		
4. In acid medium Zn reduces nitrate ion to $NH_4^+$ ion according to the reaction Zn + NO <sub>3</sub> Zn <sup>2+</sup> + NH <sub>4</sub> <sup>+</sup> + H <sub>2</sub> O (unbalanced) How many moles of HCl are required to teduce half a mole of NaNO <sub>3</sub> completely? Assume the availability of sufficient Zn.						
541	a) 5	b) 4	c) 3	d) 2		
5.	Weight of FeSO <sub>4</sub> (mol a) 30.4 g	.wt. = 152) oxidized by b) 15.2 g	200 mL of 1 <i>N</i> KMnO <sub>4</sub> s c) 60.8 g	olution is : d) 158 g		
6. In the ionic equation,						
$BiO_3^- + 6H^+ + xe^- \rightarrow Bi^{3+} + 3H_2O$ The values of x is						
	a) 6	b) 2	c) 4	d) 3		
7.		$- \frac{XClO_2}{D} + 2OH^- \rightarrow XCl$ b) $X = 2, Y = 5$				
8. What volume of 0.40 <i>M</i> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> would be required to react with the I <sub>2</sub> liberated by adding excess of						
KI	to 50 mL of 0.20 <i>M</i> CuS a) 12.5 mL	b) 25 mL	c) 50 mL	d) 2.5 mL		
9. pre		<sup>+</sup> + Sn <sup>2+</sup> → 2Fe <sup>2+</sup> + Sn .5 g in acid solution and b) 0.111 N		$d_2$ (mol.wt. = 189.7) solution otal of 2.25 litre is : d) 0.444 N		
10.	The eq.wt. of $Fe_2(SO_4)$ a) (Mol. wt.)/1	) <sub>3</sub> , the salt to be used as b) (Mol. wt.)/2	an oxidant in an acidic s c) (Mol. wt.)/3	olution is : d) (Mol. wt.)/5		
11.	Oxalic acid on reacting a) CO and H <sub>2</sub>	g with acidified KMnO <sub>4</sub> i b) $CO_2$ and $H_2$	s oxidised to : c) $CO_2$ and $H_2O$	d) CO and $H_2O$		

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<ul><li>12. The oxidation number</li><li>a) +2 and +7</li></ul>	r of N and Cl in NOClO <sub>4</sub> r b) +3 and +7	espectively are c) —3 and +5	d) +2 and -7				
<ul><li>13. Sulphur in +3 oxidation</li><li>a) Sulphurous acid</li></ul>	on state is present in b) Pyrosulphuric acid	c) Dithionous acid	d) Thiosulphuric acid				
14. Among the properties (a) reducing, (b) oxidising and (c) complexing the set of properties shown by CN <sup>-</sup> ion towards metal species is :							
a) a, b, c	b) b, c	c) c, a	d) a, b				
<ul> <li>15. Magnesium reacts with acids producing hydrogen and corresponding magnesium salts. In such reactions magnesium undergoes : <ul> <li>a) Oxidation</li> <li>b) Reduction</li> <li>c) Neither oxidation nor reduction</li> <li>d) Simple dissolution</li> </ul> </li> </ul>							
16. What volume of 0.1 <i>N</i> oxalic acid solution can be reduced by $250 \text{ g}$ of an 8 per cent by weight KMnO <sub>4</sub>							
solution? a) 6.3 litre	b) 12.6 litre	c) 25.2 litre	d) 0.63 litre				
<ul> <li>17. The oxidation state of +3 for phosphorus is in:</li> <li>a) Hypophosphorous acid</li> <li>b) Meta-phosphoric acid</li> <li>c) Ortho-phosphoric acid</li> <li>d) Phosphorous acid</li> </ul>							
18. When SO <sub>2</sub> is passed thr <mark>ough acidified solution of potassium dichromate, th</mark> en chromium sulphate is formed. The change in oxidation number of chromium is :							
a) +4 to +2	b) +5 to +3	c) +6 to +3	d) +7 to +2				
<ul> <li>19. Oxidation no. of P in H a) +3, +5, +4</li> <li>20. Oxidation of thiosulph a) SO<sub>3</sub><sup>-</sup></li> </ul>	b) +4, +3, +5	c) +3, +4, +5	d) +5, +3, +4 d) $S_2 O_8^{2-}$				