

CLASS : XIIth DATE :

SUBJECT : CHEMISTRY DPP NO. : 5

Topic :-REDOX REACTIONS

1.	$Co(s) + Cu^{2+}(aq) \rightarrow C$ a) Oxidation reaction	o ²⁺ (<i>aq</i>) +Cu(<i>s</i>). This read b) Reduction reaction	action is : c) Redox reaction	d)None of these	
2.	The oxidation state of I in $H_4IO_6^-$ is :				
	a) +7	b)-1	c) +5	d)+1	
3.	The oxidation number	of N in NH_3 is :			
	a) -3	b)+3	c) Zero	d)5	
4. Mn^{2+} can be converted into Mn^{7+} by reacting with					
	a) SO ₂	b) Cl ₂	c) PbO ₂	d) SnCl ₂	
5.	The oxidation number	of Ni in K ₄ [Ni(CN) ₄] is :			
	a) +1	b)+2	c) —1	d)0	
6.	Which change occur when lead monoxide is converted into lead nitrate? a) Oxidation b) Reduction c) Neither oxidation nor reduction d) Both oxidation and reduction				
7. How many mole of electron are involved in the reduction of one mole of MnO_4^- ion in alkaline modium to MnO_4^- ?					
me	a) 2	b) 1	c) 3	d)4	
8.	The oxidation number of Fe in K_4 Fe(CN) ₆ is : a) +2 b) +3 c) +4 d) +6				
9	9 For the reaction $NH_2 + \Omega Cl^- \rightarrow N_2H_4 + Cl^-$				
occurring in basic medium, the coefficient of N_2H_4 in the balanced equation will be					
	a) 1	b) 2	c) 3	d)4	
10.	. In the reaction $H_2O + H_2O_2 \rightarrow S + 2H_2O$ a) H_2S is an acid and H_2O_2 is a base b) H_2S is a base and H_2O_2 is an acid				

c) H_2S is an oxidising agent and H_2O_2 is a reducing agent d) H_2S is a reducing agent and H_2O_2 is an oxidising agent 11. When H_2SO_3 is converted into H_2SO_4 the change in the oxidation state of sulphur is from: a) 0 to +2b) +2 to +4 c) +4 to +2d) +4 to +6 12. The oxidation number of nitrogen in NH₂OH is : b) - 1 c) −3 d) – 2 a) +1 13. In the reaction, $2CuSO_4 + 4KI \rightarrow Cu_2I_2 + 2K_2SO_4 + I_2$ The ratio of equivalent weight of CuSO₄ to its molecular weight is : c) 1/2 a) 1/8 b)1/4 d)1 14. In the reaction between acidified $K_2Cr_2O_7$ and iron (II) ions shown by the equation : $Cr_2O_7^{2-1}$ $(aq) + 6 \operatorname{Fe}^{2+}(aq) + 14 \operatorname{H}^{+}(aq) \rightarrow 2 \operatorname{Cr}^{3+}(aq) + 7 \operatorname{H}_2 O(l) + 6 \operatorname{Fe}^{3+}(aq)$ a) The colour of the solution changes from green to blue b) The iron (II) ions are reduced c) The dichromate ions are reduced d) Hydrogen ions are reduced 15. Which is the reducing agent in the reaction, $8H^+ + 4NO_3^- + 6Cl^- + Sn(s) \rightarrow SnCl_6^{2-} + 4NO_2 + 4H_2$ 0? a) Sn(s)b) Cl^{-} c) $NO_3^$ d)NO₂(g) 16. Which is a redox reaction? a) $H_2SO_4 + 2NaOH \rightarrow Na_2SO_4 + 2H_2O$ b) $BaCl_2 + H_2SO_4 \rightarrow BaSO_4 + 2HCl$ c) CH₃COOH + C₂H₅OH \rightarrow CH₃COOC₂H₅ + H₂O d) $2FeCl_3 + SnCl_2 \rightarrow 2FeCl_2 + SnCl_4$ 17. Which one of the following reactions involves disproportionation? a) $2H_2SO_4 + Cu$ $CuSO_4 + 2H_2O + SO_2 b)As_2O_3 + 3H_2S$ $As_2S_3 + 3H_2O$ c) $2KOH + Cl_2$ $KCl + KOCl + H_2O$ d) $Ca_3P_2 + 6H_2O$ $3Ca(OH)_{2} + 2PH_{3}$ 18. The oxidation state of chromium in the final product formed by the reaction between KI and acidified potassium dichromate solution is a) +3 b) + 2c) +6 d)+4 19. Which of the following acts as an oxidising as well as reducing agent? a) Na_2O b) Na_2O_2 c) NaNO₃ d) $NaNO_2$ 20. Oxidation state of carbon in graphite is: a) Zero b)+1 c) +4 d) + 2