

CLASS: XIIth
DATE:
SUBJECT: CHEMISTRY
DPP NO.: 3

Topic:-REDOX REACTIONS				
1. for	0.3 g of an oxalate salt complete oxidation. The a) 33%			required 90 mL of $N/20~{ m KMnO_4}$
2.	How many litre of Cl ₂ a a) 3.54 litre	nt STP will be libe <mark>rated b</mark> b) 7.08 litre	y the oxidation of NaCl v c) 1.77 litre	with 10 g KMnO ₄ ? d) None of these
3. g of	What is the normality of the compound in 100 n a) 2 N			acid medium, which contain 15.8
4.	KMnO ₄ in acid medium a) Mn ⁴⁺	is alwa <mark>ys reduced to :</mark> b) Mn ²⁺	c) Mn ⁶⁺	d) Mn
5.	In balancing the half re a) 2 on the right	action, $S_2O_3^{2-} \rightarrow S(s)$, the by 2 on the left	he number of electrons t c) 3 on the right	that must be added is : d) 4 on the left
6.	What volume of 0.1 <i>M</i> a) 4.1 mL	KMnO ₄ is needed to oxid b) 8.2 mL	dise $100 \mathrm{mg}$ of $\mathrm{FeC_2O_4}$ ir c) $10.2 \mathrm{mL}$	acidic solution? d) 4.6 mL
7.	Which one is not a redo a) FeSO ₄ vs. K ₂ Cr ₂ O ₇		c) I ₂ vs. hypo	d) <mark>AgNO₃ vs. KCl</mark>
8. A 0.518 g sample of lime stone is dissolved in HCl and then the calcium is precipitated as CaC_2O_4 . After filtering and washing the precipitate, it requires 40.0 mL of 0.250 N KMnO ₄ , solution acidified with H_2SO_4 to titrate is as, $MnO_4^- + H^+ + C_2O_4^{2^-} \longrightarrow Mn^{2^+} + CO_2 + 2H_2O$. The percentage of CaO in the sample is : a) 54.0 % b) 27.1 % c) 42% d) 84%				
9.	The missing term in fol a) Sn^{4+}	llowing equation is : 2Fe b) Sn ²⁺	$^{3+}(aq) + \operatorname{Sn}^{2+}(aq) \rightarrow 2$ c) Sn	2Fe ²⁺ (aq)+? d) None of these
10. Reaction of Br_2 with Na_2CO_3 in aqueous solution gives sodium bromide and sodium bromate with evolution of CO_2 gas. The number of sodium bromide molecules involved in the balanced chemical				
equ	ation is a) 1	b) 3	c) 5	d) 7
11.	Oxidation number of ca a) $-4/3$, $+4/3$	arbon in C_3O_2 , Mg_2C_3 are b) + 4/3, -4/3	= =	d) $-2/3$, $+4/3$
12.	The reaction; $KI + I_2$	\rightarrow KI ₃ shows :		

a) Oxidation b) Reduction c) Complex formation d) All of these 13. The oxidation state of Cr in chromium trioxide is b) +4c) + 5d) + 614. Oxidation number of S in S₂Cl₂ is: c) Zero d) -115. In which of the following N has lowest oxidation number? b) NO_2 c) N_2O d) N_2O_5 16. 2 mole of FeSO₄ are oxidized by 'X' mole of KMnO₄ whereas 2 mole of FeC₂O₄ are oxidized by 'Y'mole of KMnO₄. The ration f'X' and Y' is: a) 1:3 b) 1:2 c) 1:4 d) 1:5 17. H₂S reacts with halogens, the halogens: a) Are oxidised b) Are reduced c) Form sulphur halides d) None of these 18. In an experiment 50 mL of 0.1 M solution of a salt reacted with 25 mL of 0.1 M solution of sodium sulphite. The half equation for the oxidation of sulphite ion is: $SO_3^{2-}(aq) + H_2O(l) \rightarrow SO_4^{2-}(aq) + 2H^+(aq) + 2e^-$ If the oxidation number of metal in the salt was 3, what would be the new oxidation number of metal? b) 1 a) Zero c) 2 d) 4 19. The most stable oxidation state of copper is: b) +1c) +3d) + 4

- 20. White phosphorus reacts with caustic soda, the products are PH₃ and NaH₂PO₂. This reaction is an example of
 - a) Oxidation
- b) Reduction
- c) Disproportionation d) Neutralisation

