

CLASS: XIIth DATE:

SUBJECT: CHEMISTRY

DPP NO.: 3

Topic:-redox reactions

1. км	-	was dissolved in 100 ml		required 90 mL of $N/20$	
11111	a) 33%	b) 66%	c) 70%	d)40%	
2.	How many litre of Cl ₂ at STP will be liberated by the oxidation of NaCl with 10 g KMnO ₄ ?				
	a) 3.54 litre	b) 7.08 litre	c) 1.77 litre	d) None of these	
3. con		of a KMnO $_4$ solution to bound in 100 mL of soluti			
	a) 2 <i>N</i>	b) 3 <i>N</i>	c) 4 <i>N</i>	d) 5 <i>N</i>	
4.	KMnO ₄ in acid mediun a) Mn ⁴⁺	n is always reduced to : b) Mn ²⁺	c) Mn ⁶⁺	d) Mn	
5.	In balancing the half rea) 2 on the right	eaction, $S_2O_3^{2-} \longrightarrow S(s)$, the b) 2 on the left	e number of electrons th	nat 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 oxide b) 8.2 mL	dise 100 mg of FeC $_2$ O $_4$ ir c) 10.2 mL	n acidic solution? d) 4.6 mL	
7.	Which one is not a red a) FeSO ₄ vs. K ₂ Cr ₂ O ₇		c) I ₂ vs. hypo	d) AgNO ₃ vs. KCl	
acio	After filtering and wash lified with H_2SO_4 to titr	ne stone is dissolved in Haing the precipitate, it reate is as, $MnO_4^- + H^+ +$	quires 40.0 mL of 0.250	N KMnO ₄ , solution	
cac	in the sample is : a) 54.0 %	b) 27.1 %	c) 42%	d)84%	
9.	The missing term in fo a) Sn^{4+}	llowing equation is : 2Fe	$e^{3+}(aq) + \operatorname{Sn}^{2+}(aq) \rightarrow 2F$ c) Sn	$Ge^{2+}(aq) + ?$ d) None of these	
		a ₂ CO ₃ in aqueous solution	=		

chemical equation is

	a) 1	b)3	c) 5	d)7				
11.		arbon in C_3O_2 , Mg_2C_3 are b) + 4/3, -4/3		d) -2/3, +4/3				
12.	The reaction; $KI + I_2$ — a) Oxidation	→KI ₃ shows : b) Reduction	c) Complex formation	d) All of these				
13.	The oxidation state of (a) +3	Cr in chromium trioxide b)+4	is c) +5	d)+6				
14.	Oxidation number of S a) +1	in S ₂ Cl ₂ is : b)+6	c) Zero	d)-1				
15.	In which of the following a) NO	ng N has lowest oxidatio b) NO_2	n number? c) N ₂ O	d) N ₂ O ₅				
16. 2 mole of FeSO ₄ are oxidized by $'X'$ mole of KMnO ₄ whereas 2 mole of FeC ₂ O ₄ are oxidized by $'Y$ 'mole of KMnO ₄ . The ration $f'X'$ and $'Y'$ is : a) 1:3 b) 1:2 c) 1:4 d) 1:5								
17.	H ₂ S reacts with haloger a) Are oxidised		c) Form sulphur halides					
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?								
	a) Zero	b)1	c) 2	d)4				
19.	The most stable oxidate a) +2	on state of copper is : b) +1	c) +3	d)+4				
20. White phosphorus reacts with caustic soda, the products are PH_3 and NaH_2PO_2 . This reaction is an example of								
an t	a) Oxidation	b) Reduction	c) Disproportionation	d) Neutralisation				