

CLASS: XIIth DATE:

SUBJECT: CHEMISTRY

DPP NO.: 4

Topic :-REDOX REACTIONS

 When a sulphur atom becomes a sulphide ion: a) It gains two electrons b) The mass number changes c) There is no change in the composition of atom d) None of the above Titre value is the volume of titrant used for a definite amount of unknown reagent at its: a) Equivalence point b) End point c) Neutralization point d) All of these Oxidation states of X,Y,Z are +2, +5 and -2 respectively. Formula of the compound formed by these wii be a) X₂YZ₆ b) XY₂Z₆ c) XY₅ d) X₃YZ₄ In which compound, oxygen has an oxidation state of +2? a) H₂O₂ b) H₂O c) OF₂ d) CO If equal volumes of 1M KMnO₄ and 1 M K₂Cr₂O₇ solutions are allowed to oxidise F²⁺ to F³⁺ in acidic medium volume of oxidant required for one mole of F²⁺ will be: a) V_{KMnO₄} > V_{K₂Cr₂O₇} b) V_{KMnO₄} < V_{K₂Cr₂O₇} c) V_K = V_K 					
a) Equivalence point b) End point c) Neutralization point d) All of these 3. Oxidation states of X,Y,Z are $+2$, $+5$ and -2 respectively. Formula of the compound formed by these wii be a) X_2YZ_6 b) XY_2Z_6 c) XY_5 d) X_3YZ_4 4. In which compound, oxygen has an oxidation state of $+2$? a) H_2O_2 b) H_2O c) OF_2 d) CO 5. If equal volumes of $1M$ KMn O_4 and $1M$ K $_2Cr_2O_7$ solutions are allowed to oxidise F^{2+} to F^{3+} in acidic medium volume of oxidant required for one mole of F^{2+} will be: a) $V_{KMnO_4} > V_{K_2Cr_2O_7}$ b) $V_{KMnO_4} < V_{K_2Cr_2O_7}$					
these wii be $a) X_2 Y Z_6 \qquad b) X Y_2 Z_6 \qquad c) X Y_5 \qquad d) X_3 Y Z_4$ 4. In which compound, oxygen has an oxidation state of $+2$? $a) H_2 O_2 \qquad b) H_2 O \qquad c) OF_2 \qquad d) CO$ 5. If equal volumes of $1M \text{ KMnO}_4$ and $1M \text{ K}_2 \text{Cr}_2 O_7$ solutions are allowed to oxidise F^{2+} to F^{3+} in acidic medium volume of oxidant required for one mole of F^{2+} will be : $a) V_{\text{KMnO}_4} > V_{\text{K}_2 \text{Cr}_2 O_7}$ $b) V_{\text{KMnO}_4} < V_{\text{K}_2 \text{Cr}_2 O_7}$					
 a) X₂YZ₆ b) XY₂Z₆ c) XY₅ d) X₃YZ₄ 4. In which compound, oxygen has an oxidation state of +2? a) H₂O₂ b) H₂O c) OF₂ d) CO 5. If equal volumes of 1M KMnO₄ and 1 M K₂Cr₂O₇ solutions are allowed to oxidise F²⁺ to F³⁺ in acidic medium volume of oxidant required for one mole of F²⁺ will be: a) V_{KMnO₄} > V_{K₂Cr₂O₇} b) V_{KMnO₄} < V_{K₂Cr₂O₇} 					
a) H ₂ O ₂ b) H ₂ O c) OF ₂ d) CO 5. If equal volumes of 1 <i>M</i> KMnO ₄ and 1 <i>M</i> K ₂ Cr ₂ O ₇ solutions are allowed to oxidise F ²⁺ to F ³⁺ in acidic medium volume of oxidant required for one mole of F ²⁺ will be: a) V _{KMnO₄} > V _{K₂Cr₂O₇ b) V_{KMnO₄} < V_{K₂Cr₂O₇}}					
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6. How many gram of KMnO ₄ should be taken to make up 250 mL of a solution of such strength that 1 mL is equivalent to 5.0 mg of Fe in FeSO ₄ ?					
a) 1.414 g b) 0.70 g c) 3.16 g d) 1.58 g					
7. The oxidation number of Cr in K_2CrO_4 is					
a) $+3$ b) -6 c) $+6$ d) -3					
268.In the reaction, $2Na_2S_2O_3 + I_2 \longrightarrow Na_2S_4O_6 + 2NaI$, the oxidation state of sulphur is : a) Decreased b) Increased c) Unchanged d) None of these					
9. The equivalent weight of $KMnO_4$ (acidic medium) is (at. wt. of $K = 39$; $Mn = 55$): a) 158 b) 15.8 c) 31.6 d) 3.16					

10.	The oxidation number of chromium in potassium dichromate is				
	a) +2	b)+4	c) +6	d)+8	
11.	The equivalent weight of $MnSO_4$ is half of its molecular weight when it is converted to :				
	a) Mn_2O_3	b) MnO ₂	c) MnO ₄	d) Mn ₄ ²⁻	
12.	Aqueous solution of SO_2 reacts with H_2S to precipitate sulphur. Here SO_2 acts as :				
	a) Catalyst	b) Reducing agent	c) Oxidizing agent	d) Acid	
13.	Saline hydrides are: a) Strong oxidants b) Strong reductants c) Strong dehydrating a d) Strong bleaching age	•			
14.	State the oxidation nuna) 0 and 0	nber of carbonyl carbon b) 0 and +2	in methanal and methan $c) +1$ and $+2$	noic acid respectively1 d)+1 and +3	
15.	The eq. wt. of I_2 in the change $I_2 \rightarrow IO_3^-$ is :				
	a) 12.7	b) 63.5	c) 25.4	d) 2.54	
16. SO ₂	Equivalent mass of $+2H_2S \rightarrow 3S + 2H_2O$	oxid <mark>izing</mark> agent i <mark>n the</mark> re	action is.		
	a) 32	b) 64	c) 16	d)8	
17.	In a conjugate pair of real Lower ox.no.	educ <mark>tant a</mark> nd oxidant, th b) <mark>Highe</mark> r ox.no.	e reductant has : c) Same ox.no.	d) Either of these	
18.	In which of the following a) With Li to form LiH	ng reactions, hydrogen is b) With I_2 to give HI	s acting as an oxidising a c) With S to give H ₂ S	ngent? d) None of the above	
19.	The number of moles o a) 3	f Mohr's salt required po b) 4	er mole of dichromate ic	on is : d) 6	
20.	For reducing one mole a) 2	of Fe ²⁺ ion to Fe, the nur b) 1	nber of faraday of electr c) 1.5	ricity is : d) 4	