



SHIKSHA CLASSES

Subject : Chemistry

Question Paper

Total Marks :25

Class : XI

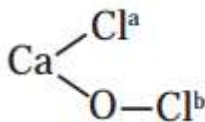
6 : Redox Reaction

Time : 1 Hour

SECTION A

Q.1 : Choose the correct option : 4

- i) Which of the following halogens does always show oxidation state -1 ?
- a) F b) Cl
c) Br d) I
- ii) Oxidation numbers of Cl atoms marked as Cl^a and Cl^b in CaOCl₂ (bleaching powder) are



- a) zero in each
b) -1 in Cl^a and +1 in Cl^b
c) +1 in Cl^a and -1 in Cl^b
d) 1 in each
- iii) The oxidation state of phosphorus in Ba (H₂PO₂)₂ is
- a) + 3 b) + 2
c) + 1 d) -1
- iv) Which is the correct stock notation for manganese dioxide?
- a) Mn(I)O₂ b) Mn(II)O₂
c) Mn(III)O₂ d) Mn(IV)O₂

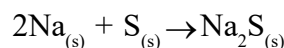
Q.2 : Answer the following : 2

- i) Define Oxidation agent.
ii) Define Reducing agent.

SECTION B

Answer the following : (ANY 3) 6

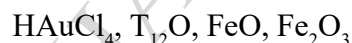
Q.3 : Justify the following reaction as redox reaction.



Q.4 : Assign oxidation number to each element in the following compound or ions :



Q.5 : Provide stock notation number to each element in the following compounds :



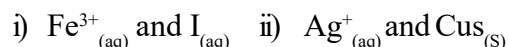
Q.6 : Define the terms oxidation and reductant In terms of oxidation number.

Q.7 : Explain working of Daniel cell.

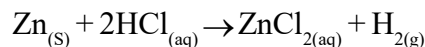
SECTION C

Answer the following : (ANY 3) 9

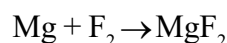
Q.8 : By using standard electrode potential table, predict whether the reaction between two species is spontaneous or not.



Q.9 : Using oxidation number concept, identify the redox reactions. Identify oxidizing and reducing agent in case of redox reactions.



Q.10 : Justify the following reaction as redox in terms of electron transfer.



Q.11 : Define :

- i) Displacement reaction

ii) Oxidation terms of electron transfer

iii) Reduction in terms of e- transfer.

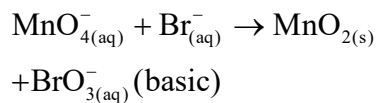
Q.12 : Calculate the oxidation number of underlined atoms.

i) $\text{H}_3\underline{\text{P}}\text{O}_3$ ii) $\text{K}_2\underline{\text{C}}_2\underline{\text{O}}_4$ iii)
 $\text{H}_2\underline{\text{S}}_4\underline{\text{O}}_6$

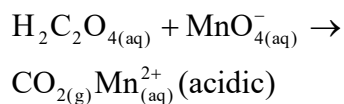
Section D

: Answer the following : (ANY 1) 4

Q.13 : Balance the following reactions by oxidation number method :



Q.14 : Balance the following redox equations by half reaction method :



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