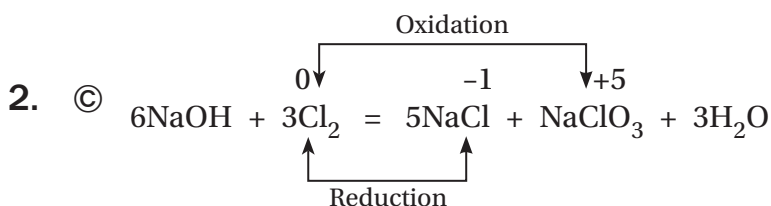


Chemistry

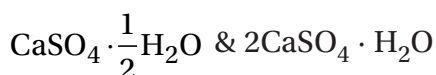
Class : X to XI

1. (B) $2\text{NaNO}_3 + \text{Heat} = 2\text{NaNO}_2 + \text{O}_2$
 $2\text{AgBr} + \text{Light} = 2\text{Ag} + \text{Br}_2$



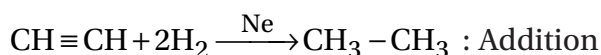
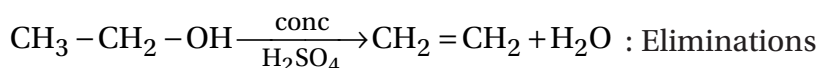
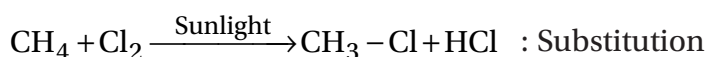
3. (C) $\text{Zn} + 2\text{NaOH} + 2\text{H}_2\text{O} = 2\text{NaAlO}_2 + 3\text{H}_2$,
 $2\text{Al} + 2\text{NaOH} + 2\text{H}_2\text{O} = 2\text{NaAlO}_2 + 3\text{H}_2$

4. (B) Reaction between acid and base is double displacement reaction.
 5. (B) An acid in aqueous solutions gives H_3O^+ as only cations and no other cation.
 6. (C) In acid rain $pH < 5.6$
 7. (D) Tartaric acid is present in tamarind.
 8. (C) Washing soda = $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$.
 9. (D) Plaster of paris is expressed in two ways i.e.



10. (B) During calcination metal carbonate is converted to metal oxide and during roasting metal sulphide is converted to metal oxide.
 11. (B) As per IUPAC nomenclature positions of carboxylic acid is always 1 and so it is not to be mentioned. So, (A) is incorrect & (B) is correct.

12. (D) $\text{CH}_2 = \text{CH}_2 + \text{H}_2 \xrightarrow{\text{Ni}} \text{CH}_3 - \text{CH}_3$: Addition



13. (C) $\left. \begin{array}{l} \text{N} = 14 \\ \text{As} = 74.9 \end{array} \right\} \text{Average of these two} = \frac{14 + 74.9}{2} = 44.45 \text{ but } P = 31$



14. © Eka - Al = Ga
Eka - B = Sc
Eka — Si = Ge
Eka — Mn = Tc
15. Ⓑ Radius increases down the group. Li is group topper and so has smallest radius.