

- Identify A and B in the following equation
 $Fe + H_2O(\text{steam}) \rightarrow A + B$
 a) $Fe(OH)_2 + H_2O$ b) $Fe_2O_3 + H_2$ c) $Fe_3O_4 + H_2$ d) $FeO + H_2O$
- Which of the following element react with dilute HCl to liberate H_2 gas
 a) Carbon b) Silicon c) Iodine d) Sulphur
- Example of sulphide ore is
 a) Calamine b) Limestone c) Galena d) Zincite
- The metal having least melting point is
 a) Sodium b) Tungsten c) Copper d) Mercury
- The best reducing agent among the following is
 a) Potassium b) Sodium c) Calcium d) Magnesium
- X and Y in the following reaction respectively are $H_2S + Cl_2 \rightarrow X + Y$
 a) H_2 and Cl_2 b) $HCl + HS$ c) $HCl + H_2$ d) $HCl + S$
- Aluminium oxide is _____ oxide
 a) Acidic b) Basic c) Amphoteric d) Neutral
- Neutral oxide among the following is
 a) CO_2 b) NO c) Na_2O d) ZnO
- Electrolysis of molten $NaCl$ salt liberates
 a) Sodium metal at anode b) Sodium metal at cathode
 c) Chlorine gas at cathode d) Chlorine gas at any electrode
- $2KI + Br_2 \rightarrow 2KBr + I_2$. The oxidising agent in the following reaction is
 a) KI b) KBr c) I_2 d) Br_2
- Which of the following does not occur during calcinations
 a) Volatile impurities remove from concentrated ore
 b) Carbonate ores converted to oxide ore
 c) Sulphide ores converted to oxide ore
 d) Moisture is removed
- Which of the following is not a method of concentration of ore
 a) Magnetic method b) Leaching c) Froth floatation d) Roasting
- Carbon reduction is not useful for extraction of
 a) Zn b) Pb c) Ca d) Fe
- Which of the following reaction is not possible
 a) $Zn + Cu(NO_3)_2 = Zn(NO_3)_2 + Cu$ b) $2Al + 3FeSO_4 \rightarrow 3Fe + Al_2(SO_4)_3$
 c) $Ag + Cu(NO_3)_2 \rightarrow Ag(NO_3)_2 + Cu$ d) $Fe + Ag(NO_3)_2 \rightarrow Fe(NO_3)_2 + Ag$
- Tin is not present in
 a) Bronze b) Solder c) Steel d) All

16. The lightest metal floats on water is
 a) Aluminium b) Lithium c) Mercury d) Sodium
17. Why H_2 gas is not evolved when metal react with nitric acid?
 a) Because nitric acid is a strong oxidizing agent
 b) Because nitric acid is a strong reducing agent
 c) Both a and b
 d) Cannot be predicted
18. Bauxite is an alloy of
 a) Aluminium b) Iron c) Zinc d) Silver
19. Hardest substance among the following is
 a) Diamond b) Sulphur c) Phosphorous d) Iodine
20. The metal highly resistant to corrosion is
 a) Copper b) Silver c) Gold d) Iron
21. Incorrect statement is
 a) Sodium chlorides is bad conductor of electricity in solid state
 b) Sodium chlorides conduct electricity in solid state
 c) Molten sodium chloride is good conductor of electricity
 d) All are correct statements
22. Carbon dioxide dissolved in water to form
 a) Carbonic acid b) Carbolic acid c) Acetic acid d) Carbinol
23. Cryolite is
 a) Na_2AlF_6 b) Na_3AlF_6 c) Na_4AlF_6 d) Na_2AlF_5
24. P_2O_5 is
 a) acidic b) basic c) amphoteric d) neutral
25. The number of water of crystallization in Epsom salt is
 a) 3 b) 5 c) 7 d) 1
26. Match the following columns
- | A | B |
|------------------|-----------------|
| 1) Carbonate ore | i) Corundum |
| 2) Sulphide ore | ii) Rock salt |
| 3) Halide ore | iii) Lime stone |
| 4) Sulphate ore | iv) Cinnabar |
| 5) Oxide ore | v) Gypsum |