

61. The substance used for regenerating the exhausted permutit is
(1) 100 Vol. H_2O_2 (2) Dil. HCl
(3) 10% $NaCl$ solution (4) 10% Na_2CO_3 solution
62. Which of the following statements is incorrect ?
(1) H_2O_2 has weak acidic property (2) H_2O_2 has weak basic property
(3) H_2O_2 can act as oxidising agent (4) H_2O_2 can act as a reducing agent
63. The following reaction shows the reducing action of H_2O_2
(1) $PbS + 4H_2O_2 \rightarrow PbSO_4 + 4H_2O$
(2) $2I^- + 2H^+ + H_2O_2 \rightarrow I_2 + 2H_2O$
(3) $H_2O_2 + O_3 \rightarrow H_2O + 2O_2$
(4) $K_2Cr_2O_7 + H_2SO_4 + 4H_2O_2 \rightarrow K_2SO_4 + 2CrO_5 + 5H_2O$
64. Volume strength of perhydrol is
(1) 30 (2) 60 (3) 100 (4) 11.2
65. When 'n' moles of CO combines with $(2n+1)$ moles of H_2 , the hydrocarbon formed is
(1) Alkene (2) Alkane (3) Alkyne (4) None
66. Dihydrogen reduces CuO to
(1) Cu_2O (2) CuH_2 (3) $(CuH)_2$ (4) Cu
67. A commercial sample of H_2O_2 is labelled as 10 volume. Its percentage strength is nearly
(1) 1% (2) 3% (3) 10% (4) 90%
68. In the following reactions which is deuterolysis
(I) $AlCl_3 + 3D_2O \longrightarrow Al(OD)_3 + 3DCl$
(II) $CaC_2 + 2D_2O \longrightarrow Ca(OD)_2 + C_2D_2$
(III) $Mg_3P_2 + 6D_2O \longrightarrow 3Mg(OD)_2 + 2PD_3$
(1) I and II only (2) II and III only
(3) I and III only (4) I, II and III
69. Which of the following is not correct ?
(1) Temporary hardness of water is due to the presence of bicarbonates of calcium and magnesium in it
(2) Permutit is an artificial zeolite
(3) H_2O_2 acts as an oxidizing agent in the following reaction: $Cl_2 + H_2O_2 \rightarrow O_2 + 2HCl$
(4) H_2O_2 is used as bleaching agent for delicate textiles
70. Which one of the following reactions represents the oxidizing property of H_2O_2 ?
(1) $2KMnO_4 + 3H_2SO_4 + 5H_2O_2 \longrightarrow K_2SO_4 + 2MnSO_4 + 8H_2O + 5O_2$
(2) $2K_3[Fe(CN)_6] + 2KOH + H_2O_2 \longrightarrow 2K_4[Fe(CN)_6] + 2H_2O + O_2$
(3) $PbO_2 + H_2O_2 \longrightarrow PbO + H_2O + O_2$
(4) $2KI + H_2SO_4 + H_2O_2 \longrightarrow K_2SO_4 + I_2 + 2H_2O$