Based on the stoichiometry of the reaction, waht is the ratio of MnO4 to H2O2 consumed in the reaction?
a)5MnO4: 2H2O2
b)1 MnO4: 1H2O2
c) 2MnO4: 10H2O2
d)2MnO4: 5H2O2

Solution.

$3H_2O_2 + 2KMnO_4 \rightarrow 3O_2 + 2MnO_2 + 2KOH + 2H_2O$

2 MnO4- + 6 H+ + 5 H2O2 = 2 Mn2+ + 5 O2 + 8 H2O

Answer. d)

Answer provided by www.AssignmentExpert.com