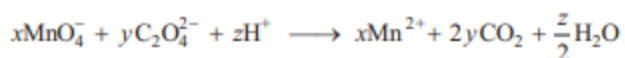


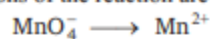
Consider the following reaction, (2013 Main)



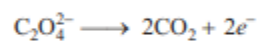
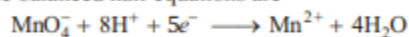
The values of  $x$ ,  $y$  and  $z$  in the reaction are, respectively

- (a) 5, 2 and 16                      (b) 2, 5 and 8  
(c) 2, 5 and 16                      (d) 5, 2 and 8

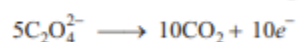
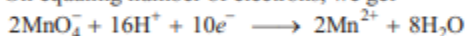
The half equations of the reaction are



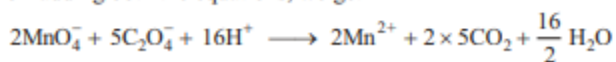
The balanced half equations are



On equating number of electrons, we get



On adding both the equations, we get



Thus  $x$ ,  $y$  and  $z$  are 2, 5 and 16 respectively.