## (AIEEE 2012)

?78a. The equilibrium constant  $(K_c)$  for the reaction  $N_2(g) + O_2(g) \rightarrow 2NO(g)$  at temperature T is  $4 \times 10^{-4}$ . The value of  $K_c$  for

the reaction, NO(g) 
$$\rightarrow \frac{1}{2} N_2(g) + \frac{1}{2} O_2(g)$$
 at

the same temperature is

(1) 
$$2.5 \times 10^2$$
 (2)  $4 \times 10^{-4}$ 

