

PYQSide

NEET EQUILIBRIUM — REACTION QUOTIENT AND DIRECTION OF REACTION — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ)

Q.1 For the reaction $2A \rightleftharpoons B + C$, $K_c = 4 \times 10^{-3}$. At a given time, the composition of reaction mixture is: $[A] = [B] = [C] = 2 \times 10^{-3}$ M. Then, which of the following is correct? [NEET (UG) 2024]

- (1) Reaction is at equilibrium.
- (2) Reaction has a tendency to go in forward direction.
- (3) Reaction has a tendency to go in backward direction.
- (4) Reaction has gone to completion in forward direction.

Scan or tap for the full solution



Q.2 If the value of equilibrium constant for a particular reaction is 1.6×10^{12} , then at equilibrium the system will contain [AIPMT 2015 (Cancelled)]

- (1) mostly products
- (2) similar amounts of reactants and products
- (3) all reactants
- (4) mostly reactants.

Scan or tap for the full solution



Q.3 The reaction quotient (Q) for the reaction $N_2(g) + 3H_2(g) \rightleftharpoons 2NH_3(g)$ is given by

$$Q = \frac{[NH_3]^2}{[N_2][H_2]^3}$$

The reaction will proceed from right to left if

[AIPMT 2003]

- (1) $Q = K_c$ (2) $Q < K_c$ (3) $Q > K_c$ (4) $Q = 0$

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3								
Ans.	3	1	3								