

PYQSide

NEET STATES OF MATTER — KINETIC THEORY OF GASES — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ)

Q.1 By what factor does the average velocity of a gaseous molecule increase when the temperature (in Kelvin) is doubled? [AIPMT 2011 (Prelims)]

- (1) 2.0 (2) 2.8 (3) 4.0 (4) 1.4

Scan or tap for the full solution



Q.2 If a gas expands at constant temperature, it indicates that [AIPMT 2008]

- (1) kinetic energy of molecules remains the same
(2) number of the molecules of gas increases
(3) kinetic energy of molecules decreases
(4) pressure of the gas increases

Scan or tap for the full solution



Q.3 Which of the following expressions correctly represents the relationship between the average molar kinetic energy, KE, of CO and N₂ molecules at the same temperature? [AIPMT 2000]

- (1) $KE_{CO} = KE_{N_2}$
(2) $KE_{CO} > KE_{N_2}$
(3) $KE_{CO} < KE_{N_2}$
(4) cannot be predicted unless volumes of the gases are given

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3								
Ans.	4	1	1								