

JEE MAIN STATES OF MATTER — PYQS

Max. Marks: 4

Questions: 1

Section A (MCQ) — 1 question

Q.1 At the sea level, the dry air mass percentage composition is given as nitrogen gas: 70.0, oxygen gas: 27.0 and argon gas: 3.0. If total pressure is 1.15 atm, then calculate the ratio of following respectively:

(i) partial pressure of nitrogen gas to partial pressure of oxygen gas

(ii) partial pressure of oxygen gas to partial pressure of argon gas

(Given: Molar mass of N, O and Ar are 14, 16 and 40 g mol⁻¹ respectively.)

[JEE Main 2025 (Online) 7th April Morning Shift]

(1) 5.46, 17.8

(2) 2.96, 11.2

(3) 4.26, 19.3

(4) 2.59, 11.85

Scan or tap for the
full solution



ANSWER KEY

Ques.	1																		
Ans.	2																		