

NEET THERMODYNAMICS — HEAT CAPACITY — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ) — 3 questions

Q.1 Which one among the following is the correct option for right relationship between C_p and C_v for one mole of ideal gas? [NEET (UG) 2021]

- (1) $C_v = RC_p$ (2) $C_p + C_v = R$
 (3) $C_p - C_v = R$ (4) $C_p = RC_v$

 Scan or tap for the
full solution


Q.2 Equal volumes of two monoatomic gases, A and B at same temperature and pressure are mixed. The ratio of specific heats (C_p/C_v) of the mixture will be [AIPMT 2012 (Mains)]

- (1) 0.83 (2) 1.50 (3) 3.3 (4) 1.67

 Scan or tap for the
full solution


Q.3 The molar heat capacity of water at constant pressure, C_p , is $75 \text{ J K}^{-1} \text{ mol}^{-1}$. When 1.0 kJ of heat is supplied to 100 g of water which is free to expand, the increase in temperature of water is [AIPMT 2003]

- (1) 1.2 K (2) 2.4 K (3) 4.8 K (4) 6.6 K

 Scan or tap for the
full solution


ANSWER KEY

Ques.	1	2	3								
Ans.	3	4	2								