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JEE MAIN THERMODYNAMICS — HEAT CAPACITY — PYQS

Max. Marks: 8 **Questions:** 2

Section A (MCQ) — 2 questions

Q.1 The correct order of molar heat capacities measured at 298 K and 1 bar is :

[JEE Main 2026 (Online) 5th April Evening Shift]

(1) Copper(s) > Bromine(l) > Helium(g)

(2) Bromine(l) > Copper(s) > Helium(g)

(3) Helium(g) > Bromine(l) > Copper(s)

(4) Helium(g) > Bromine(l) = Copper(s)

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Q.2 Given below are two statements :

Statement-I: For an ideal gas, heat capacity at constant volume is always greater than the heat capacity at constant pressure.

Statement-II: In a constant volume process, no work is produced and all the heat withdrawn goes into the chaotic motion and is reflected by a temperature increase of the ideal gas.

In the light of the above statements, choose the correct answer from the options given below

[JEE Main 2026 (Online) 4th April Morning Shift]

(1) Both Statement-I and Statement-II are true

(2) Both Statement-I and Statement-II are false

(3) Statement-I is true but Statement-II is false

(4) Statement-I is false but Statement-II is true

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ANSWER KEY

Ques.	1	2									
Ans.	**2**	**4**									