

PART 1 - PHYSICS

Topic : Thermal properties of matter**SECTION-B : (Maximum Marks : 4)**

This section contains **ONE** question.

The answer to each question is a **NON-NEGATIVE INTEGER**.

For each question, enter the correct integer corresponding to the answer in the place designated to enter the answer.

Answer to each question will be evaluated according to the following marking scheme :

Full Marks : +4 If **ONLY** the correct answer is entered;

Zero Marks : 0 In all other cases.

1. The specific heat capacity of a substance is temperature dependent and is given by the formula $C = kT$, where k is a constant of suitable dimensions in SI units, and T is the absolute temperature. If the heat required to raise the temperature of 1 kg of the substance from -73°C to 27°C is nk , the value of n is ____.

[Given: $0^\circ\text{K} = -273^\circ\text{C}$.]

[JEE Advanced 2024 Paper 1]

Scan or tap for the
full solution



Space for Rough Work

**JEE ADVANCED THERMAL PROPERTIES OF MATTER
— SPECIFIC HEAT CAPACITY AND CALORIMETRY —
PYQS**

Test Pattern : JEE (Advanced)

ANSWER KEY**SECTION-B**

Ques.	1																			
Ans.	25000																			