

NEET THERMAL PROPERTIES OF MATTER — CHANGE OF STATE AND LATENT HEAT — PYQS

Max. Marks: 12
Questions: 3

Section A (MCQ) — 3 questions

- Q.1** A piece of ice falls from a height h so that it melts completely. Only one-quarter of the heat produced is absorbed by the ice and all energy of ice gets converted into heat during its fall. The value of h [Latent heat of ice is 3.4×10^5 J/kg and $g = 10$ N/kg] [NEET 2016 (Phase 1)]
- (1) 136 km (2) 68 km (3) 34 km (4) 544 km

Scan or tap for the full solution

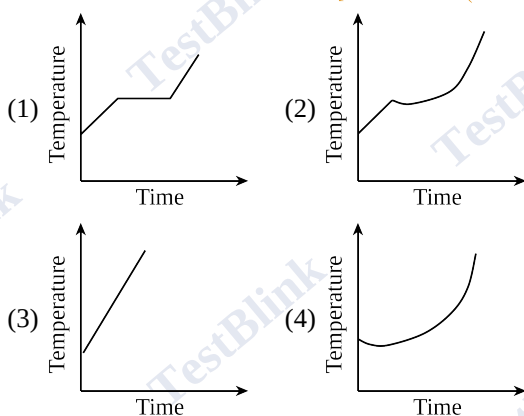


- Q.2** Steam at 100°C is passed into 20 g of water at 10°C . When water acquires a temperature of 80°C , the mass of water present will be [Take specific heat of water = $1 \text{ cal g}^{-1} ^\circ\text{C}^{-1}$ and latent heat of steam = 540 cal g^{-1}] [AIPMT 2014]
- (1) 24 g (2) 31.5 g (3) 42.5 g (4) 22.5 g

Scan or tap for the full solution



- Q.3** Liquid oxygen at 50 K is heated to 300 K at constant pressure of 1 atm. The rate of heating is constant. Which one of the following graphs represents the variation of temperature with time ? [AIPMT 2012 (Prelims)]



Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3								
Ans.	1	4	1								