SARANSH | PHYSICS



TARGET : NEET (UG) 2024

PHYSICS DPPP DAILY PRACTICE PROBLEMS DPP NO. 1

**Course : SARANSH (Youtube Live CRASH COURSE)** 

## **PHYSICS: Calorimetry & Thermal Expansion**

## DPP No. : 1

1.	At NTP water boils at 1 (1) 100°C	00°C. Deep down the mi (2) > 100°C	ne, water will boil at a te (3) < 100°C	mperature (4) Will not boil at all	
2.	The latent heat of vaporization of a substance is always (1) Greater than its latent heat of fusion (2) Greater than its latent heat of sublimation (3) Equal to its latent heat of sublimation (4) Less than its latent heat of fusion				
3.	How much heat energy is gained when 5 kg of water at 20°C is brought to its boiling point (Specific heat of water = 4.2 kJ kg <sup>-1</sup> c <sup>-1</sup> ) (1) 1680 kJ (2) 1700 kJ (3) 1720 kJ (4) 1740 kJ				
4.				given L <sub>steam</sub> = 536 cal/gm) (4) 1 kilocalorie	
5.	Two spheres made of s the ratio of (1) 1 : 2	same substance have dia (2) 1 : 8	ameters in the ratio 1 : 2. (3) 1 : 4	Their thermal capacities are in (4) 2 : 1	
6.		ted to increase its tempe e in its temperature is (Sp (2) 6°C		me quantity of heat is given to 20 Joule-kg <sup>_1</sup> °C <sup>_1</sup> ) (4) 8°C	
7.	<ul> <li>A closed bottle containing water at 30°C is carried to the moon in a space-ship. If it is placed on the surface of the moon, what will happen to the water as soon as the lid is opened</li> <li>(1) Water will boil</li> <li>(2) Water will freeze</li> <li>(3) Nothing will happen on it</li> <li>(4) It will decompose into H<sub>2</sub> and O<sub>2</sub></li> </ul>				
8.	A water fall is 84 metres high. If half of the potential energy of the falling water gets converted to heat, the rise in temperature of water will be (1) 0.098°C (2) 0.98°C (3) 9.8°C (4) 0.0098°C				
9.	In supplying 400 calorie (1) 400 joules	es of heat to a system, th (2) 1672 joules	e work done will be (3) 1672 watts	(4) 1672 ergs	
10.	The SI unit of mechanic (1) Joule × Calorie	cal equivalent of heat is (2) Joule/Calorie	(3) Calorie × Erg	(4) Erg/Calorie	

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