Thermodynamics

Name_____ Class_____ Date_____

1 When a car is driven over snow, the snow under the tires may **melt** because the

A pressure of the tires lowers the melting point of the snow
B pressure of the tires raises the melting point of the snow
C snow loses heat energy to the tires
D specific heat of the snow is decreased

2 The temperature of a water sample is increased **5 Celsius degrees** from its **freezing point**. The sample's rise in temperature on the **Kelvin scale** was

A 5 K
B 9 K
C 278 K
D 378 K

3 What do the **laws of thermodynamics** indicate about the **energy** and **entropy** of the universe?

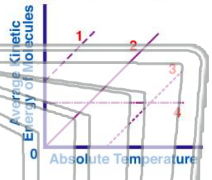
A Energy is decreasing and entropy is

4 Which graph best represents the relationship between **pressure (P)** and **absolute temperature (T)** for a fixed mass of an ideal gas in a rigid container?

5

7 kinetic energy of the molecules of an **ideal gas** and absolute temperature?

A 1
B 2
C 3
D 4

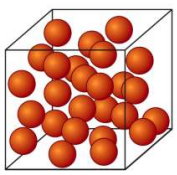


the **total entropy** in the universe

A decreases, only
B increases, only
C remains the same
D cyclically increases and decreases

9 As the number of gas molecules in a rigid container at constant temperature is **increased**, the **pressure** on the walls of the container

A decreases
B increases
C remains the same



10 How much **heat** is required to raise the temperature of 1.00 kilogram of liquid alcohol from its melting point to **0°C**?

A 2.43 kJ
B 196 kJ
C 284 kJ
D 476 kJ

Thermodynamics

Phys Sci

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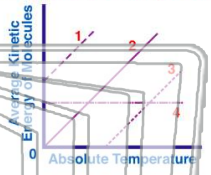

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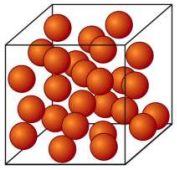

B

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