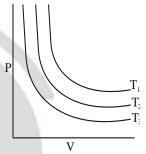
ARJUNA (NEET)

STATE OF MATTER

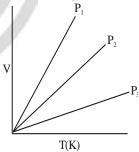
DPP-02

- 1. The pressure of gas A (P_A) is 3.0 atm when it occupies 5L of the volume. Calculate the final pressure when it is compressed to 3L volume at constant temperature.
 - (A) 5 atm
- (B) 2 atm
- (C) 4 atm
- (D) 3 atm
- **2.** A balloon is filled with hydrogen at room temperature. It will burst if pressure exceeds 0.2 bar. If at 1 bar pressure the gas occupies 2.27 L volume, upto what volume can the balloon be expanded?
 - (A) 11.35 L
- (B) 19 L
- (C) 14 L
- (D) 28 L
- 3. What will be the volume of a given mass of a gas at a pressure of 50 cm of Hg, if it occupies 260 mL at a pressure of 98 cm of Hg keeping the temperature constant.
 - (A) 4L
- (B) 509.6 mL
- (C) 200 mL
- (D) 402 mL
- **4.** What is the minimum pressure required to compress 460 dm³ of air at 2 bar to 230 dm³ at 30°C?
 - (A) 4 bar
- (B) 2 bar
- (C) 3 bar
- (D) 9 bar
- 5. Convert 200°C in K.
 - (A) 473 K
- (B) -73 K
- (C) -473K
- (D) +73 K

- **6.** S. I. Unit of volume is?
 - (A) m^3
- (B) cm³
- (C) L
- (D) dm^3
- **7.** S. I. Unit of temperature is?
 - (A) Kelvin
- (B) °C
- (C) Fahrenite
- (D) Both A and B
- **8.** Which of the following is correct relation?



- (A) $T_1 > T_2 > T_3$
- (B) $T_3 > T_2 > T_1$
- (C) $T_1 = T_2 = T_3$
- (D) None of these
- **9.** Which of the following is correct relation



- (A) $P_1 > P_2 > P_3$
- (B) $P_3 > P_2 > P_1$
- (C) $P_1 = P_2 = P_3$
- (D) None of these

ANSWERS

- **1.** (A)
- **2.** (A)
- **3.** (B)
- **4.** (A)
- **5.** (A)
- **6.** (A)
- **7.** (A)
- **8.** (A)
- **9.** (B)





Note - If you have any query/issue

Mail us at support@physicswallah.org