I Choose the best answer (5×1=5)

1. The value of the gas constant R is

   a) 0.082 dm^3 atm b) 0.987 cal mol^{-1} K^{-1} c) 8.3 J mol^{-1} K^{-1}

   d) 8 erg mol^{-1} K^{-1}

2. Maximum deviation from ideal gas is expected from

   a) $CH_{4(g)}$ b) $NH_{3(g)}$ c) $H_{2(g)}$ d) $N_2{(g)}$

3. Use of hot air balloon in sports + meterological observation is an application of

   a) Boyle's law b) Newton's law c) Kelvin's law

   d) Brown's law

4. The units of Vander waals constants 'b' & 'a' respectively a) mol L^{-1} & L atm mol^2

   b) mol L & L atm mol^2 c) mol^{-1} L & L^2 atm mol^{-2} d) none of these

5. If temperature & volume of an ideal gas is increased to twice its values, the initial pressure P becomes

   a) 4P b) 2P c) P d) 3P