Q. 05 *The p-V diagram of two diffe*
(as shown) at constant temperature T. State u

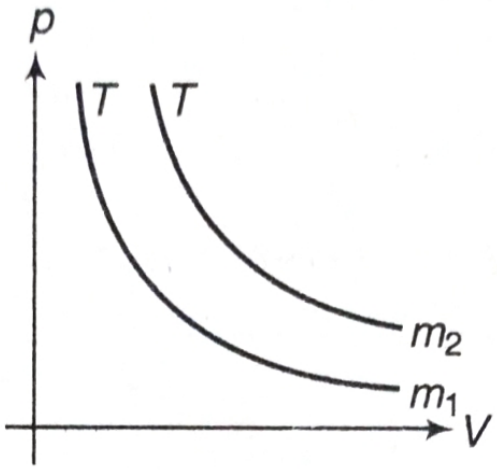

Fig. 20.19

Solution

$$pV = nRT = \frac{m}{M}RT$$

$$\therefore \qquad m = (pV)\left(\frac{M}{RT}\right) \quad \text{or} \quad m \propto pV \text{ if}$$

From the graph, we can see that $p_2V_2 > p_1V_1$ (for same p

$$m_2 > m_1$$