## Q1. Use log tables to find the values of

- i. 0.8176 × 13.64
- ii.  $(789.5)^{\frac{1}{8}}$
- iii.  $\frac{0.678 \times 9.01}{0.0234}$
- iv.  $\sqrt[5]{2.709} \times \sqrt[7]{1.2}$
- $\mathbf{V.} \ \frac{(1.23)(0.6975)}{(0.0075)(1278)}$
- vi. 3 0.7214×20.37
- $vii. \quad \frac{83 \times \sqrt[3]{92}}{127 \times \sqrt[5]{246}}$
- viii.  $\frac{(438)^3 \times \sqrt{0.056}}{388^4}$
- Q2. A gas is expanding according to the law  $PV^n = C$ . Find C when P=80, V=3.1 and  $n = \frac{5}{4}$ .
- Q3. The formula  $p = 90(5)^{-\frac{q}{10}}$  applies to the demand of a product, where 'q' is the number of units and p is the price the price units and p is the price of one unit. How many units will be demanded if the price is Rs. 18.00?
- Q4. If  $A = \pi r^2$  find A, when  $\pi = \frac{22}{7}$  and r = 15.
- **Q5.** If  $v = \frac{1}{3} \pi r^2 h$ , find v when  $\pi = \frac{22}{7}$ , r = 2.5 and h = 4.2.