

Exercise 3.1

Q.1 Express each of the following numbers in scientific notations.

(i) 5700

$$= 5.7 \times 10^3 \text{ Ans}$$

(ii) 49,800,000

$$= 4.98 \times 10^7 \text{ Ans}$$

(iii) 96000000

$$= 9.6 \times 10^7 \text{ Ans}$$

(iv) 416.9

$$= 4.169 \times 10^2 \text{ Ans}$$

(v) 83000

$$= 8.3 \times 10^4 \text{ Ans}$$

(vi) 0.00643

$$= 6.43 \times 10^{-3} \text{ Ans}$$

(vii) 0.0074

$$= 7.4 \times 10^{-3} \text{ Ans}$$

(viii) 60,000,000

$$= 6 \times 10^7 \text{ Ans}$$

(ix) 0.00000000395

$$= 3.95 \times 10^{-9} \text{ Ans}$$

(x) $\frac{275000}{0.0025}$

$$= \frac{2.75 \times 10^5}{2.5 \times 10^{-3}} \text{ Ans}$$

Q.2 Express the following number in ordinary notation.

(i) 6×10^{-4}

$$= 0.0006 \text{ Ans}$$

(ii) 5.06×10^{10}

$$= 50600000000 \text{ Ans}$$

(iii) 9.018×10^{-6}

$$= 0.000009018 \text{ Ans}$$

(iv) 7.865×10^8

$$= 786500000 \text{ Ans}$$