

$$1. (i) 279404 = 2 \times 10^5 + 7 \times 10^4 + 9 \times 10^3 + 4 \times 10^2 + 0 \times 10^1 + 4 \times 10^0$$

$$(ii) 3006194 = 3 \times 10^6 + 0 \times 10^5 + 0 \times 10^4 + 6 \times 10^3 + 1 \times 10^2 + 9 \times 10^1 + 4 \times 10^0$$

$$(iii) 2806196 = 2 \times 10^6 + 8 \times 10^5 + 0 \times 10^4 + 6 \times 10^3 + 1 \times 10^2 + 9 \times 10^1 + 6 \times 10^0$$

$$(iv) 120719 = 1 \times 10^5 + 2 \times 10^4 + 0 \times 10^3 + 7 \times 10^2 + 1 \times 10^1 + 9 \times 10^0$$

$$(v) 20068 = 2 \times 10^4 + 0 \times 10^3 + 0 \times 10^2 + 6 \times 10^1 + 8 \times 10^0$$

$$2. (a) \begin{array}{r} 86045 \\ 503302 \\ 30705 \\ 900230 \end{array}$$

$$3. \begin{array}{r} 5,00,00,000 = 5.0 \times 10^7 \\ 70,00,000 = 7.0 \times 10^6 \\ 3,18,65,00,000 = 3.1865 \times 10^9 \\ 3,90,878 = 3.90878 \times 10^5 \\ 3,90,87.8 = 3.90878 \times 10^4 \\ 3908.78 = 3.90878 \times 10^3 \end{array}$$

$$4. (a) \begin{array}{l} \text{distance between Earth and Moon is} \\ = 384\,000\,000 \text{ m} \\ = 3.84 \times 10^8 \text{ m} \end{array}$$

$$(b) \begin{array}{l} \text{speed of light in vacuum is } 3,00,00,00,000 \\ = 3 \times 10^8 \text{ m/s} \end{array}$$