



Exponents Ex 6.4 Q1

Answer :

We have

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

$$(ii) 420719 = 4 \times 10^5 + 2 \times 10^4 + 0 \times 10^3 + 7 \times 10^2 + 1 \times 10^1 + 9 \times 10^0$$

$$(iii) 7805192 = 7 \times 10^6 + 8 \times 10^5 + 0 \times 10^4 + 5 \times 10^3 + 1 \times 10^2 + 9 \times 10^1 + 2 \times 10^0$$

$$(iv) 5004132 = 5 \times 10^6 + 0 \times 10^5 + 0 \times 10^4 + 4 \times 10^3 + 1 \times 10^2 + 3 \times 10^1 + 2 \times 10^0$$

$$(v) 927303 = 9 \times 10^5 + 2 \times 10^4 + 7 \times 10^3 + 3 \times 10^2 + 0 \times 10^1 + 3 \times 10^0$$

Note: $a^0 = 1$

Exponents Ex 6.4 Q2

Answer :

We have

$$\begin{aligned}(i) & 7 \times 10^4 + 6 \times 10^3 + 0 \times 10^2 + 4 \times 10^1 + 5 \times 10^0 \\ &= 7 \times 10000 + 6 \times 1000 + 0 \times 100 + 4 \times 10 + 5 \times 1 = 76045\end{aligned}$$

$$\begin{aligned}(ii) & 5 \times 10^5 + 4 \times 10^4 + 2 \times 10^3 + 3 \times 10^0 \\ &= 5 \times 100000 + 4 \times 10000 + 2 \times 1000 + 3 \times 1 = 542003\end{aligned}$$

$$\begin{aligned}(iii) & 9 \times 10^5 + 5 \times 10^2 + 3 \times 10^1 \\ &= 9 \times 100000 + 5 \times 100 + 3 \times 10 = 900530\end{aligned}$$

$$\begin{aligned}(iv) & 3 \times 10^4 + 4 \times 10^2 + 5 \times 10^0 \\ &= 3 \times 10000 + 4 \times 100 + 5 \times 1 = 30405\end{aligned}$$

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