

DATE: 14th OCT 23

"ICT LAB TASK 3 7"

NAMES: SHAHAZ SHAHID MEMON

Roll No.: 23P-0599

TASK 1:

$$(11011.101)_2 = (?)_{10}$$

Ans:

$$1 \times 2^4 + 1 \times 2^3 + 0 \times 2^2 + 1 \times 2^1 + 1 \times 2^0 + 1 \times 2^{-1} + 0 \times 2^{-2} + 1 \times 2^{-3}$$
$$\Rightarrow 1 \times 16 + 1 \times 8 + 0 + 1 \times 2 + 1 + 0.5 + 0 + 0.125$$
$$\Rightarrow 16 + 8 + 2 + 1 + 0.5 + 0.125$$

$$(11011.101)_2 = (27.625)_{10}$$

TASK 2:

$$101101 + 10110$$

Sols:

$$\begin{array}{r} 101101 \\ + 10110 \\ \hline 1000011 \end{array}$$

TASK 3:

$$110010 - 100111$$

Sols:

$$\begin{array}{r} 110010 \\ - 100111 \\ \hline 001011 \end{array}$$