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Section: 1C

Program: BS(CS)

Batch: 2023

"LAB TASK 2" 06"

1. $(110011)_2 = (?)_{16} \quad \therefore \text{Binary} \Rightarrow \text{Hexadecimal}$

8421 0011 ↓ 3	8421 0.011 ↓ 3
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$(33)_{16}$

2. $(2AD)_{16} = (?)_{10} \quad \therefore \text{Hexadecimal} \Rightarrow \text{decimal}$

$\Rightarrow 2 \times 16^2 + 10 \times 16^1 + 13 \times 16^0$
 $512 + 160 + 13$
 $(685)_{10}$

3. $(5276)_8 = (?)_{16} \rightarrow (?)_{10} \rightarrow (?)_2$

421 101	421 010	421 111	421 110
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$\therefore \text{Hex} \Rightarrow \text{Bin}$

Binary = $(10101011110)_2$ ~~A~~

8421 1010 10 A	8421 1011 11 B	8421 1110 15 E	8421 1111 15 F
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$(ABE)_{16}$

$$(ABE)_{16} \Rightarrow (?)_{10} \quad \therefore \text{Hexa} \Rightarrow \text{decimal}$$

$$\Rightarrow 10 \times 16^2 + 11 \times 16^1 + 14 \times 16^0$$

$$2560 + 176 + 14$$

$$(2750)_{10}$$

$$(2750)_{10} \Rightarrow (?)_2$$

$$\Rightarrow$$

2048	1024	512	256	128	64
↓	↓	↓	↓	↓	↓
1	0	1	0	1	0

$$\Rightarrow$$

32	16	8	4	2	1
↓	↓	↓	↓	↓	↓
1	1	1	1	1	0

$$\Rightarrow (10101011110)_2$$