# Practical - 1

Q1 Convert $(1056)_{16}$ to $(?)_8$

1 0 5 6

0001 0000 0101 0110

000 | 010 | 000 | 101 | 010 | 110

1 0 1 2 6

$= (10126)_8$

Q2 $(11672)_8$ to $(?)_{16}$

$(11672)_8 \rightarrow (?)_{16}$

001 001 110 111 010

1 3 11 10

$= (13BA)_{16}$

Q3 $(2724)_8 \longrightarrow (?)_{10}$

$4 \times 8^0 + 2 \times 8^1 + 7 \times 8^2 + 2 \times 8^3 = (1492)_{10}$

Q4

Q4 $(3211)_4$ to $(?)_5$

$= 2\times4^0 + 1\times4^1 + 2\times4^2 + 3\times4^3$

$= 1 + 4 + 32 + 192$

$= (229)_{10}$

| | | |
|---|---|---|
| 5 | 229 | |
| 5 | 45 | 4 |
| 5 | 9 | 0 |
| 5 | 1 | 4 |
| | 0 | 1 |

$= (1404)_5$

Q5 $(100100100)_2 \rightarrow (?)_6$

$2^0\times2^0 + 0\times2^1 + 1\times2^2 + 1\times2^3 + 1\times2^6 + 1\times2^9$

$= (588)_{10}$

| | | |
|---|---|---|
| 6 | 588 | |
| 6 | 98 | 0 |
| 6 | 16 | 2 |
| | 2 | 4 |
| | 0 | 2 |

$= (2420)_6$