

## Exercises 3

1) How many binary digits does it take to represent the decimal number 2013?

Solution: - It takes 11 binary digits to represent decimal number 2013. 2013 in binary is

11111011101.

2) How many bytes does it take to store the binary equivalent of the decimal number 1945?

Solution: - It takes 2 bytes to store binary equivalent of the decimal number 1945.

3) Convert this binary number 1010110102 to Decimal.

Solution: (346)<sub>10</sub>

4) Convert this binary number 1010110102 to Octal.

Solution: (532)<sub>8</sub>

5) Show the decimal number 147 in Binary.

Solution: (10010011)<sub>2</sub>

6) Convert this hexadecimal number 5D316 to Binary.

Solution: (10111010011)<sub>2</sub>

7) Convert this octal number 12348 to Decimal.

Solution: (284)<sub>10</sub>