

**01.1** Convert the binary number 01101110 into hexadecimal.

**[2 marks]**

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Answer: .....

**01.2** Convert the decimal number 137 into 8-bit binary.

**[1 mark]**

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**01.3** What binary shift can be used to **quarter** the value of a binary number?

**[2 marks]**

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**01.4** How many binary numbers can be represented using **4 bits**?

**[1 marks]**

.....

**01.5** Write down the largest decimal number that can be represented using **6 bit** binary.

**[1 mark]**

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**01.6** Write down the range of decimal numbers which can be represented using 6-bit binary.

**[1 mark]**

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**01.7** Add together the following three binary numbers and give your answer in 8 bit binary

**[2 marks]**

$$\begin{array}{r} 01000100 \\ 00011111 \\ + 01000001 \\ \hline \end{array}$$

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**03.2** How many bits are there in 2 kiloBytes?

**[1 mark]**

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