

1 (a) State **one** difference between a tebibyte and a gigabyte.

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..... [1]

(b) (i) Convert the unsigned binary integer into hexadecimal.

110001100111

Answer [1]

(ii) Convert the two's complement binary number into denary.

100110010111

Answer [1]

(iii) Convert the Binary Coded Decimal (BCD) into denary.

010101110011

Answer [1]

(c) Subtract the denary number 23 from the two's complement binary number 01001010

Perform this calculation using binary subtraction.

Show your working.

Working
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Answer [2]

(d) State **one** reason why binary addition and subtraction can result in overflow.

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..... [1]