

2 (a) Convert the denary integer 558 into 12-bit binary and hexadecimal.

Binary .....

Hexadecimal .....

[2]

(b) (i) Convert the two's complement binary integer 11100010 into denary.

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.....

..... [1]

(ii) Write the smallest and the largest two's complement binary integers that can be represented in 8 bits.

Smallest .....

Largest .....

[2]

(c) Give **one** application where Binary Coded Decimal (BCD) is used and justify its use.

Application .....

Justification .....

.....

[2]