

8 (a) Explain why data is stored in computers in a binary format.

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..... [2]

(b) In the ASCII character set, the character codes for the first three capital letters are given below.

| Letter | ASCII character code |
|--------|----------------------|
| A | 01000001 |
| B | 01000010 |
| C | 01000011 |

(i) State how the ASCII character set is used to represent text in a computer.

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..... [1]

(ii) Convert the word CAB into binary using the ASCII character set.

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..... [1]

(iii) Explain why the ASCII character set is **not** suitable for representing text in all the languages of the world.

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..... [2]