

ASCII and Unicode are used to represent characters.

01 The ASCII character set uses 7 bits to encode each character.

01.1 State the total number of characters which can be encoded using ASCII.

[1 mark]

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01.2 The word "Bananas" is to be encoded using ASCII. How many bits are needed to encode it?

[1 mark]

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01.3 The character F is represented in ASCII code as the decimal value 070.

Using this information, state the decimal ASCII code value used to represent each of the characters below.

[2 marks]

D:

J:

02.1 State **two** advantages of using Unicode instead of ASCII.

[2 marks]

1.

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2.

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02.2 Describe **one** disadvantage of using Unicode instead of ASCII.

[2 marks]

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03 The character g is represented in ASCII code using the decimal value 103.

What decimal character code will the character g be represented with if it is encoded using Unicode?

[1 mark]

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