Oxford Revise | OCR Computer Science | Answers

Chapter 2 Hexadecimal numbers

Question	Answer	Extra information	Marks	AO / Specification reference
1	16 1 C B 12 x 16 + 11 203	Digits shown with correct place values **or** Correct calculation including multiplication of first digit by 16. Correct answer.	1 1	AO2 1.2.4
2	210 ÷ 16 = 13 remainder 2 The first digit is 13, which is D in hexadecimal The second digit is 2 D2	Indication of 210 being divided by 16 showing the result and remainder. Correct answer.	1 1	AO2 1.2.4
3	A6	The 8-bit binary number can be split into two 4-bit nibbles and the conversion to hexadecimal for each nibble written down.	1	AO1 1.2.4

Question	Answer	Extra information	Marks	AO / Specification reference
4	11000011	Each hexadecimal digit can be written down as a 4-bit nibble and joined together to make an 8-bit binary number. C has the value twelve = 1100 3 = 0011	1	AO1 1.2.4