

# Cambridge IGCSE<sup>®</sup> Computer Science Workbook Answers

## ● 1 Binary systems and hexadecimal

1 a 10100101  
b A5 [3 marks]

2 a 118  
b 95  
c AC4  
d 0011 1110 1101 [6 marks]

3 a  $800 \times 16 = 12800$  MB  
b  $\frac{22800}{1024} = 22.25$  GB [4 marks]

4 a i 01000001  
ii 01100001 [2 marks]  
b i 86  
ii 118 [2 marks]  
c i 01010110  
ii 01110110 [2 marks]

d Lower case is always 32 higher than the upper case letter. Place a 1-bit in position 32 in the upper case binary ASCII code to get the lower case binary ASCII code. [2 marks]

5 a 

0	0	1	0	0	0	0	1
---	---	---	---	---	---	---	---

 [1 mark]

b i 

1	0	0	0	0	1	0	0
---	---	---	---	---	---	---	---

 [2 marks]

ii  $128 + 4 = 132$  [1 mark]

c i R = 27 r = 108 (= "R value" by 4)  
ii M = 22 m = 88 (= "M value" by 4) [4 marks]

6 a i A MAC address is usually made up of 48 bits which are shown as six groups of hexadecimal digits (although 64-bit addresses are also known):

NN – NN – NN – DD – DD – DD or NN:NN:NN:DD:DD:DD

where the first half (NN – NN – NN) is the identity number of the manufacturer of the device and the second half (DD – DD – DD) is the serial number of the device. [2 marks]

ii Since it is much easier to work with: B5A41AFC rather than: 10111001101001000001101011111100

hexadecimal is often used when developing new software or when trying to trace errors in programs.

A program developer can look at each of the hexadecimal codes (as shown in Figure 1.7 of the textbook) and determine where the error lies. The value on the far left shows the memory location so that it is possible to find out exactly where in memory the fault occurs. [2 marks]

iii HTML code is often used to represent colours of text on the computer screen. The values change to represent different colours. The different intensity of the three primary colours (red, green and blue) is determined by its hexadecimal value. For example:  
# FF 00 00 represents primary colour red  
# 00 FF 00 represents primary colour green  
# 00 00 FF represents primary colour blue [2 marks]

b www.H&Sstudybooks.co.uk [3 marks]

7 a AF01 [2 marks]

b 1010 1111 0000 0001 [2 marks]

8 a A MAC address is usually made up of 48 bits which are shown as six groups of hexadecimal digits (although 64-bit addresses are also known): NN – NN – NN – DD – DD – DD or NN:NN:NN:DD:DD:DD

where the first half (NN – NN – NN) is the identity number of the manufacturer of the device and the second half (DD – DD – DD) is the serial number of the device. [2 marks]

# Cambridge Igcse Computer Science Answers

**Chris Leadbetter, Stewart  
Wainwright, Alan Stinchcombe**

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