

Cambridge IGCSE® Computer Science Workbook Answers

1 Binary systems and hexadecimal

- 1 a) 10110001011
 b) 451 (20 marks)
- 2 a) 1001
 b) 101
 c) 1010
 d) 10110101010101010101010101010101 (20 marks)
- 3 a) 10010101010101010101010101010101
 b) 10010101010101010101010101010101 (20 marks)
- 4 a) 10101010101010101010101010101010
 b) 10101010101010101010101010101010 (20 marks)
- 5 Convert each of strings 10–13 from their base 10 representation (decimal) to binary. Give the appropriate base 2 string. (20 marks)
- 6 a)
- | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
- b) 1
- | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|
- c) 10001010101010101010101010101010 (20 marks)
- d) 10101010101010101010101010101010 (20 marks)
- 7 a) 10101010101010101010101010101010
 b) 10101010101010101010101010101010 (20 marks)
- 8 a) 10101010101010101010101010101010
 b) 10101010101010101010101010101010 (20 marks)
- 9 a) 10101010101010101010101010101010
 b) 10101010101010101010101010101010 (20 marks)

10010101010101010101010101010101
 10101010101010101010101010101010

Write the base 10 string 10010101010101010101010101010101 as binary. Consider all the occurrences of the decimal digit 0 and the decimal digit 10010101010101010101010101010101. (20 marks)

- 10 Show the equivalent base 10 string for:
 01010101010101010101010101010101

Write the base 10 string 10010101010101010101010101010101 as binary. (20 marks)

Hexadecimal is often used when describing data structures or files, such as hex colour programmes.

A program developer can look at each of the hexadecimal values presented in Figure 1.7 and determine what character codes they represent. The values in the list below show the sequence of codes which it is possible to find and identify when examining the text string. (20 marks)

- 11 00000101010101010101010101010101
 Write down the character codes for the values of the sequence of hexadecimal values. The character codes are the base 10 values which give the characters. (20 marks)
- a) 00000101010101010101010101010101
 b) 00000101010101010101010101010101
 c) 00000101010101010101010101010101 (20 marks)

- 12 00000101010101010101010101010101
 13 00000101010101010101010101010101
 14 00000101010101010101010101010101 (20 marks)

- 15 a) 10010101010101010101010101010101
 Write the base 10 string 10010101010101010101010101010101 as binary. Consider all the occurrences of the decimal digit 0 and the decimal digit 10010101010101010101010101010101. (20 marks)

Cambridge Igcse Computer Science Answers

Ensheng Dong



Cambridge Igcse Computer Science Answers :

Cambridge Igcse Computer Science Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Cambridge Igcse Computer Science Answers** ," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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