

MrGoff.com Comp Sys Test (Offline)

Complete the missing parts of the table below by naming the logic gates shown below (4 marks)



Gate	Name of gate
A	
B	
C	
D	

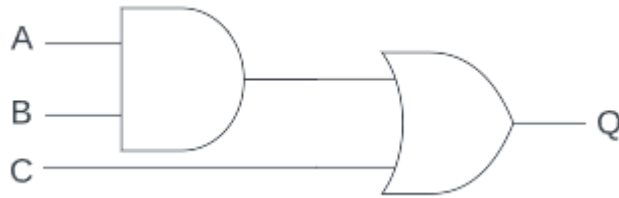
(NOTE: Order changed for reading ease Q2 and Q3 swapped)

From the following list place each item in either the systems software or applications software group.

List: Windows, Disk defragmenter, Presentation Software, Auto-updater, Web browser, Game (2 marks)

System software	Application software

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The Boolean expression for the logic circuit above is: _____ (1 mark)

Show the truth table for the logic circuit above

Name and describe 3 of the 5 main roles of the operating system. (6 marks)

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Explain the differences between low level and high level languages and give an example of each. (5 marks)

Explain the similarities and differences between the three types of translators. (3 marks)

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3.6Ghz
Single core
8MB cache



2.4Ghz
Dual core
8MB cache



1.2Ghz
Quad core
4MB cache

Jim likes to play games on his computer. Sometimes he will be researching online while listening to music and having open a couple of documents he is working on. He wants the most powerful computer he can get. He has got it down to a choice of 3 computers. The specifications for their CPUs are above.

Explain how the three factors shown affect CPU performance and explain which to choose and why. (5 marks)

What is meant by the Von Neumann architecture? (1 mark)

Explain the role of buses in the CPU. (2 marks)

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Explain the difference between the two types of main memory. (3 marks)

Explain what secondary storage is and why it is needed. (2 marks)

Explain how optical storage works. Include both how data is stored and read. (5 marks)

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Explain the advantages and disadvantages of cloud storage compared to local storage. (4 marks)

Explain what an embedded system and give an example. (2 marks)
