# Study questions chapters 3 and 4

1. **Why would you want to eliminate cable clutter in the computer case and how could you go about it?**

To avoid interference with other components. To solve this issue a modular power supply can be used or cable ties to keep them in place.

1. Name at least 3 types of power connectors.
2. What is an I/O connector plate and where does is go?
3. Why should you think twice before unplugging the front panel connectors from the motherboard?
4. Which type of motherboard expansion slot has four types ranging from x1 to x16 with each type having a different length of expansion slot?
5. What do the following acronyms stand for?

POST

BIOS

UEFI

1. How does the POST indicate an error?
2. What is the function of the BIOS?
3. What are some (at least 3) of the main menu options of the BIOS?
4. What is firmware in the context of motherboards?
5. Why is it recommended to use ‘Signed Drivers’?
6. What is compressed air used for in computer maintenance?
7. What environmental factors can affect a computer?
8. What are some tasks (at least 2) that could be included in a preventative maintenance plan?
9. What action should be taken before troubleshooting a computer?
10. After troubleshooting and fixing a problem with a computer, what 2 things should a computer technician do?
11. What are some (at least 3) possible reasons a computer might not boot?
12. Give an example of an open-ended question a computer technician might ask a customer.
13. Give an example of a close-ended question a computer technician might ask a customer.