Computer systems test

1. Name the 8 components of a computer system (3)

\_\_\_\_\_gpu\_\_\_\_\_\_\_\_\_\_

\_\_\_cpu\_\_\_\_\_\_\_\_\_\_\_\_

hdd\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_ram\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_mobo\_\_\_\_\_\_\_

\_\_\_\_\_bus\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_psu\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Name **3 examples** of a computer system (3)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_washing machine\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_microwave\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_phone\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Explain the purpose of the **motherboard** (3)

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To connect all of the components

1. Explain what **non-volatile** means in storage and give an example of a **non-volatile** storage device (2)

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1. Explain what the use of **RAM** is in the computer system (3)

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1. Explain the difference between **RAM** and **ROM** (4)

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1. Explain how a more powerful GPU would affect the performance of a desktop computer? (4)

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8) John wants to increase the speed at which his operating system loads on his PC. Here are some of his components:

* 2.5GHz Quad Core CPU
* 4GB RAM 2000MHz
* 7200RPM HDD

He can upgrade each component to one of the following:

* 3GHz Quad Core CPU
* 4GB RAM 3000MHz
* 600MB/s SSD

a) Which **one** component would be the best to upgrade in order to increase his loading time? Justify your answer with reasons. (3)

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b) Which **one** component would be the **second** best to upgrade? Justify

your answer with reasons. (3)

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9) Identify what **BIOS** stands for and what it is stored on. (2)

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10) Jay wants to buy a PC in order to play intensive games. He is unsure whether

he should use **integrated graphics** or a **dedicated graphics** **card**.

Explain which option he **should** choose and why it is more effective. (3)

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