

## Computer Repairs Course

### Motherboard Quiz

#### SECTION 1

Match the LETTER of the following terms with the correct Statements below.

- |   |   |
|---|---|
| A. Frontside bus ( <i>FSB</i> )                                 | B. Voltage Regulator Module ( <i>VRM</i> )                    |
| C. CMOS ( <i>Complimentary Metal Oxide Semi-conductor</i> )     | D. ISA ( <i>Industry Standard Architecture</i> )              |
| E. SECC ( <i>Single Edge Contact Cartridge</i> )                | F. PCIe ( <i>Peripheral Component Interconnect Express</i> )  |
| G. SRAM ( <i>Static Random Access Memory</i> )                  | H. Synchronous DRAM   |
| I. Backside bus ( <i>BSB</i> )                                  | J. PGA ( <i>Pin Grid Array</i> )                              |
| K. CD-R ( <i>Compact Disk – Recordable</i> )                    | L. Clock Frequency  |
| M. AGP ( <i>Accelerated Graphics Port</i> )                     | N. DVD ( <i>Digital Versatile Disk / Digital Video Disk</i> ) |
| O. PCI ( <i>Peripheral Component Interconnect</i> )             | P. Memory Card ( <i>Secure Digital and Multi-Media Card</i> ) |
| Q. DDR ( <i>Double Data Rate</i> )                              | R. ROM ( <i>Read Only Memory</i> )                            |
| S. CD-RW ( <i>Compact Disk – Rewritable</i> )                   | T. Mini-DIN 6   |
| U. Hard Disk Drive ( <i>HDD</i> )                               | V. Integrated   |
| W. Motherboard  | X. CPU ( <i>Central Processing Unit</i> )                     |
| Y. DRAM ( <i>Dynamic Random Access Memory</i> )                 | Z. LGA 775  |
| AA. Non-Integrated  | BB. BIOS Chip ( <i>Basic Input Output System</i> )            |
| CC. Chipset   | DD. $\mu$ ATX ( <i>Micro Advanced Technology Extended</i> )   |
| EE. ATX ( <i>Advanced Technology Extended</i> )                 | FF. Very Low Insertion Force ( <i>VLIF</i> )                  |
| GG. SoDIMMs ( <i>Small Outline Dual Inline Memory Modules</i> ) | HH. $\mu$ DIMMs ( <i>Micro Dual Inline Memory Modules</i> )   |
| II. BTX ( <i>Balanced Technology Extended</i> )                 | JJ. NLX ( <i>New Low-profile Extended</i> )                   |

Fill in the Blank spaces with the correct **LETTER**.

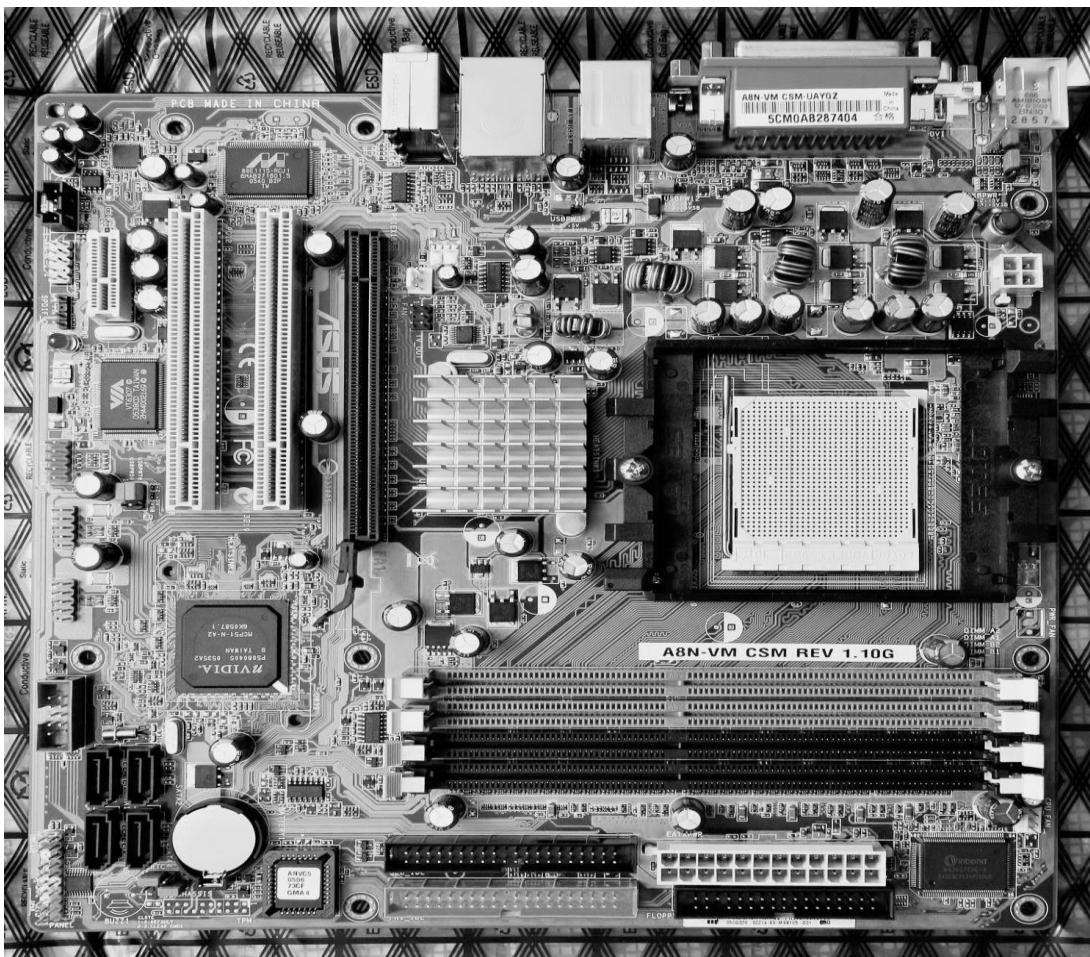
- The two major types of system boards are \_\_\_\_\_ and \_\_\_\_\_.
- The spine of the computer is the \_\_\_\_\_ and the brain of the computer is the \_\_\_\_\_.
- The \_\_\_\_\_ is less commonly referred to as the planar board.
- Name the four types of system board form factors? \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_
- A \_\_\_\_\_ is a collection of chips or circuits that perform interface and peripheral functions for the processor.
- The signal pathways between the CPU and main memory occur over what is known as the \_\_\_\_\_.
- The \_\_\_\_\_ is a set of signal pathways between the CPU and Level 2 cache memory.
- Name (4) four main types of expansion slots used in computers today? \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

9. The most common keyboard and mouse connection is the PS/2 port, also known as the \_\_\_\_\_.
10. The \_\_\_\_\_ expansion slot is almost always used for high-speed, 3D graphics video cards.
11. Laptop memory comes in small form factors known as \_\_\_\_\_ and \_\_\_\_\_.
12. Socket T, also called \_\_\_\_\_, can be fitted with a Pentium 4 or a Celeron D processor.
13. The socket that receives a PAC works on the \_\_\_\_\_ principle.
14. The \_\_\_\_\_ contains the basic software that tells the processor how to interact with the rest of the hardware in the computer and more advance one have the \_\_\_\_\_ memory built-in.
15. Your PC has to keep certain settings (*date and time, hard drive configuration*) when it's turned off and unplugged. It is stored in a special memory chip called the \_\_\_\_\_ and is powered by the CMOS Battery.

## SECTION 2

**Identify and label the following in the picture below using the NUMBER:**

- |   |   |   |
|---|---|---|
| <ol style="list-style-type: none"> <li>1. CPU socket</li> <li>2. AGP Expansion slot</li> <li>3. PCI Expansion slot</li> <li>4. AMR Expansion slot</li> <li>5. Memory sockets</li> </ol> | <ol style="list-style-type: none"> <li>6. North Bridge</li> <li>7. South Bridge</li> <li>8. IDE/PATA connector socket</li> <li>9. SATA connector socket</li> <li>10. Floppy connector socket</li> </ol> | <ol style="list-style-type: none"> <li>11. CMOS Battery</li> <li>12. BIOS Chip</li> <li>13. ATX Power connector</li> <li>14. P4 12v socket</li> <li>15. Keyboard and Mouse Ports</li> </ol> |
|---|---|---|



**Prepared by: Mr. Thompson**