Quiz 1 Key<br>CS-185, Spring '99, Dr. C. S. Tritt

1. Any 3 of the following:

CPU - Central processing unit. The brains of the system. Contained in the box we think of as the computer.

RAM - Random access memory. Contains running programs and data. Information lost when power is turned off or system is reset.

ROM - Read only memory. Contains program code (BIOS routines) that are needed to operate the computer. A sources of possible Y2K problems in older systems. Newer systems use Flash ROM that can be update using special software.

Mass Storage Devices - Hard drives, floppy diskettes, CD-ROM's. Permit "permanent" storage of program code and data.

Input Devices - Keyboard, mouse, scanner, etc. Allows information to be entered into the computer system.

Output Devices - Screen (a.k.a. the display or monitor), printer, sound cards, etc. Allows information to be output from computer system.

Communications Devices - Network card and modem. Allows computer to exchange information with other systems.
2. Any four of the following steps:

Problem analysis and specification.
Data organization and algorithm design
Program coding.
Program execution and testing.
Program maintenance and upgrades.
3. a) 4.8
b) 2
c) 0
d) 1.4286

Fortran logic errors (order of evaluation and integer math) -2.5. Math errors -1 .
4. integer :: Work_days = 5 ! Work days per week

Comment is optional, but recommended. Use of parameter -2. Leaving out 5-5.
5. Distance $=$ Rate * Time / k_per_mile

Use of $==-5$. Parenthesis may be used, but aren't required.
6. write(*,*) Speed, Time

Formatting not required, but acceptable if done correctly. Putting Speed and Time in quotes - 5. Use of two statements -1 . Use of read -3.
7. Stop statements stop program execution. Programs may contain multiple stop statements. End statements stop compilation. Programs may contain only one end statement.
8. Cross out: R2-D2, Else and \$Payment

Leave: Gopher, Count and Under_Ground
9. $\mathrm{b}=3$
$\mathrm{b}=5$
$\mathrm{b}=8$
$\mathrm{b}=12$
Math errors -1. Logic errors -7 to -9.
10. $\mathrm{a}=0.0$
$\mathrm{a}=0.5$
$\mathrm{a}=1.0$
$\mathrm{a}=1.5$
$\mathrm{a}=2.0$

