

K201 - Quiz 1A
9/10/81

Each of the following questions counts 2 points.

1. Memory is a part of CPU. Name two other functional units which belong to CPU. ARITHMETIC-LOGICAL UNIT (or ALU), CONTROL UNIT
2. The physical components that make up the computer are referred to as HARDWARE.
3. Programs written in any programming language are called SOURCE programs. Compiler translates such programs into a MACHINE language program.
4. A FORTRAN statement that is not translated into any instruction is called a NON EXECUTABLE statement.
5. What is the maximum number of characters that can be recorded on a single punched card? 80
6. When an alphabetic data item doesn't fill the entire card data field, we usually align the data to the (which side) LEFT and leave any blanks on the RIGHT.
7. Identify the mode (or explain what is wrong if incorrect) of each of the following numbers.
 - a) 3250000. DECIMAL
 - b) 0.0 DECIMAL
8. Each of the following are considered to be a FORTRAN variable. If any of them is valid, indicate the mode, otherwise explain why it is not valid.
 - a) CLASS# NO SPECIAL CHARACTERS ALLOWED
 - b) ACCOUNT TOO MANY CHARACTERS
9. Perform the following calculations, using the FORTRAN rules of arithmetic.
 - a) $(2-7/3)*2 = 0$
 - b) Let $A=2.5, B=1., C=3.5$
 $C*(A+3.*B)-B*C = 15.75$
10. Indicate the errors, if any, in the following FORTRAN expressions.
 - a) $(\text{ALPHA}-(\text{BETA}*\text{R}^{**2.})/\text{-GAMMA})/3*\text{OMEGA}$
 ↓ TWO SUBSEQUENT OPERATIONS
 MISSING D.P.
 - b) $(\text{I}+3)(\text{I}-5)/\text{KAPPA}-(1+\text{KAPA}^{**2.5})$
 ↑ MISSING OPERATION (*) → DECIMAL EXPONENT NOT ALLOWED