



Beginning RPG
152-115

Student Name _____
Score / 20

Chapter 6

1 point for each correct answer.

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- _____ 1. RPG lets you assign figurative constants *Blank (or Blanks) to character variables to fill the variables with blanks.
- _____ 2. If the concatenated string is smaller than the result variable to which it is assigned, Eval right pads the result variable with blanks. If the concatenated string is too large to fit in the result variable to which it is assigned, truncation occurs from the left end of the string.
- _____ 3. All variations of the %Trim function will remove only the blanks at the edges of the character value, not those inside the value; so it will retain the blank inside 'New York' when trimming the blanks.
- _____ 4. The %Dec function converts numeric results to a packed decimal.
- _____ 5. The %Scan (Scan string) function looks for a character or a string of characters within a character string—usually a variable, but never a literal or named constant.
- _____ 6. %Scan searches the string for the search argument, beginning with the starting position (or beginning at the first position, if you don't specify the third argument). %Scan is case sensitive; that is, 'A' is not the same as 'a'.
- _____ 7. When you use %Size to determine the length of a packed decimal or integer data item, it returns the number of digits not the number of bytes used to store the data item.
- _____ 8. The %Len function is typically used to get the length of an expression, but it can also be used to set the current length of a variable-length character field.
- _____ 9. The %Decpos (Number of decimal positions) function returns the number of decimal positions in a numeric variable or expression. %Decpos is sometimes used with the %Replace function to examine a data item or expression.
- _____ 10. The end result any of the %Trim functions is a variable-length character value; that is, it has no defined fixed length.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question

- _____ 11. Because this operation does not work with numeric expressions it must be explicitly coded in the program. It works with character assignment when you want to right adjust the result and assigns the character value starting with the rightmost character.
- Translate.
 - EVALR.
 - concatenation.
 - Eval-corr.
- _____ 12. The Eval-corr (Assign corresponding subfields) operation is a specialized version of Eval used with data structures. To be included in an Eval-corr operation, the subfield names:
- must be explicitly coded in the program.
 - must be used to assign the contents of one character field to another.
 - must be identical in both data structures and must have compatible data attributes.
 - must be assigned in the order of the subfields in the source data structure.
- _____ 13. RPG IV provides a flexible and powerful method for joining character values together in a process known as:
- Substring.
 - %Len Function.
 - Concatenation.
 - %Replace.
- _____ 14. Each concatenation expression can contain as many _____ as needed to accomplish a desired concatenation.
- +operator and character operands.
 - *Hival and *Loval character variables.
 - arguments in parentheses.
 - None of these.
- _____ 15. There are several variations on the %Trim function used to return a character value after removing leading and/or trailing blanks. To remove trailing blanks only, use:
- %Trimr.
 - % Triml.
 - %Trime.
 - %Trim.
- _____ 16. To replace existing characters in a string with new values, use this function:
- %Editw.
 - %Replace.
 - %Decpos.
 - %Char.

- _____ 17. The %Xlate (Translate) function lets you translate, or:
- search the string for the search argument, beginning with the starting position (or beginning at the first position, if you don't specify the third argument).
 - convert characters within a string to other characters.
 - verify the characters in a string.
 - concatenate a numeric value and a character string.
- _____ 18. The %Check (Check characters) function inspects a character string, checking whether or not it contains:
- characters that should be translated.
 - only the characters designated in a compare string.
 - numbers in arithmetic expressions.
 - All of these.
- _____ 19. The %Checkr (Check reverse) function works exactly like %Check, except that it:
- checks the string from right to left, rather than from left to right.
 - can be used to locate the rightmost invalid character in a string.
 - can be used to determine the length of a string of nonblank characters in a field.
 - All of these.
- _____ 20. Like a fixed length variable, a variable-length character variable:
- has a declared length, which is its maximum length.
 - is generally dependent upon the value of the variable and which can change while the program is running.
 - allocates enough memory for the entire declared length *plus two bytes*.
 - All of these.