Date: 07.04.2022   **Time: 90 minutes**

Answer the following questions

1. Explain the initialization of one-dimension array, two-dimension array and strings?
2. Can array indexes can be negative? Justify your answer.
3. List and explain the string manipulation functions?
4. What is the purpose of below character functions?
   a) isalpha(c)
   b) islower(c)
   c) isprint(c)
5. Explain the below concepts of function with examples
   a) Call by value
   b) Passing arrays to function
   c) Global and local variables
6. Lis the different types of storage class specifiers
7. How pointer is declared and initialized? Explain the below pointer concepts?
   a) Pointer arithmetic
   b) Comparing pointers
   c) Array of pointer and Pointer to an array
   d) Pointer to functions
8. Explain a) mallaoc() b) calloc() c) realloc() d) free()?
9. How an structure is different from an array?
10. Differentiate between structure and union?
11. Explain the concepts of a) structure and pointers b) structure and functions
12. What are enumeration types and bit fields in C?
13. What are the FOUR(4) essential actions carried out by FILES in C program?
14. List any three(3) file opening modes
15. What is the purpose of below functions in working with text files?
    a) Fscanf()
    b) Fgets()
    c) Fgetc()
    d) Fread()
    e) Fwrite()
    f) Fputs()

16. Differentiabe between binary file and text file in C ?
17. List the four types of pre-processor directives?
18. Explain the pre-processor directives a) #ifdef b) #endif c) #undef d)#pragma

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