AL - 0523

B.C.A. (Part - I) Second Semester

Advanced C

Paper - 2 ST 2

P. Pages : 3

Time : Three Hours   Max. Marks : 60

Note : 1. All questions are compulsory.
2. All questions carry equal marks.
3. Use suitable diagram wherever necessary.

1. a) Write a program to read a line of text and count all occurrences of a particular word.   **4**

    b) What is a string ? Explain its declaration with appropriate example.   **4**

    c) Point out the difference between :   **4**
        i) strcat and strncat
        ii) stremp and strncmp.

OR

2. a) Explain array of strings with example.   **4**

    b) Explain the following string functions :   **8**
        i) strlen( )
        ii) strlwr( )
        iii) strupr( )
        iv) strstr( )

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3. a) What is a function ? Explain the terms : function declaration, function calling and function returning with example. **8**

   b) Explain call by Reference with suitable example. **4**

   OR

4. a) What do you understand by - call by value of a function ? Explain with example. **4**

   b) Write a program in C to swap two numbers by using pointer and function technique. **8**

5. a) What is meant by following terms ? **8**
      i) Nested structure.
      ii) Array of structure.
      Explain these terms with example.

   b) Explain the difference between structure and union. **4**

   OR

6. a) What is a structure ? How is it declared and initialized ? How the members of a structure are accessed ? Explain with example. **8**

   b) Explain the advantage of union over structure. **4**

7. a) Explain standard streams and their physical connections. **4**

   b) Explain all file-opening options (modes). **4**

   c) Explain the use of getw( ) and putw( ) functions with program example. **4**

   OR

8. a) Write a program in C to read the string by using file and display it in reverse order. **8**

   b) Write C program using file to create a address list of 10 different employees. **4**

9. a) Explain the following functions in Random Access to files : **8**
      i) fseek( )
      ii) ftell( )
      iii) rewind( )

   b) Write a program that uses the functions ftell( ) and fseek( ). **4**

   OR

10. a) Explain error situations that may occur during I/O operations on a file. **4**

    b) Write a program to illustrate error handling in file operations. **8**

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