LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A.DEGREE EXAMINATION –COMPUTER APPLICATIONS

FIRST SEMESTER – **APRIL 2018**

CA 1505– PROGRAMMING IN C

Date: 26-04-2018   Dept. No.   Max. : 100 Marks
Time: 09:00-12:00

Part – A

Answer all Questions   **(10x2=20Marks)**

1. What is an operating system? Give example.
2. List the input and output devices.
3. Define the terms Identifier and keyword.
4. What is the output of the program?
    ```
    #include <stdio.h>
    void main()
    {
    int i;
    for(i=1;i<=10;i++)
    printf("%d\n",i);
    }
    ```
5. Define: Array. Give example.
6. Write any two String handling function.
7. What is recursion? Give example.
8. What is the use of Register storage class?
9. Differentiate structure and union.
10. What are command line arguments?

Part – B

Answer all Questions   **(5x8=40Marks)**

11. (a) Write a algorithm for displaying area of the square and triangle.
              (OR)
    (b) Explain the software life cycle with neat diagram.

12. (a) Discuss about the operators and expressions in C with example.
              (OR)
    (b) Write the program for finding the biggest of three numbers.

13. (a) Explain the types of array with example.
              (OR)
    (b) Write a C program to implement the string functions.

14. (a) How do you define and declare a function? Explain with an example.
              (OR)
    (b) How do you declare and define Pointer? Explain with an example.

15. (a) Explain about the structures with example.
              (OR)
    (b) Write a C program to add two numbers using command line arguments.

Part – C

16. (a) Discuss about the classification of computers in detail.

(OR)

(b) Explain in detail about the control structures in C with example.

17. (a) Write a C program to do the matrix multiplication.

(OR)

(b) Write a C program to calculate the factorial of a given number using recursion.

18. (a) Explain the function types with example for each.

(OR)

(b) Write a C program to read and print the mark sheet of the 10 students using union.

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