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CAIS-N 124 B-2K13

B.C.A. Ist Semester Degree Examination

Computer Science

(C - Programming)

Paper - 1.6

(New)

Time : 3 Hours   Maximum Marks :80

Section - A

1. Answer all the questions. Each question carries 2 marks.   (10×2=20)

    a)   Define algorithm?

    b)   What is an identifier?

    c)   What is variables?

    d)   Define operator?

    e)   What is the use of comment line in C program?

    f)   Define function?

    g)   Mention different storage classes

    h)   Differentiate variable and array

    i)   What is pointer? How do you declare pointers?

    j)   Define macro?

Section - B

Answer any **four** questions. Each question carries 5 marks.   (4×5=20)

2. What is flowchart? What are the different symbols used to draw flowchart?

3. Determine the value of each of the following logical expression

    if $a = 5, b = 10,$ and $c = -6$

    i) $a > b,$ && $a < c$

    ii) $a < b,$ && $a < c$

    iii) $a == c$ || $b > a$

iv) $b>15$ && $c<0$ || $a>0$

v) $(a/2.0==0.0)$ && $(b/2.0!=0.0)$ || $c<0.0$

4. Why do we use conditional operators? (?:) why it is called a ternary operator?

5. What is looping? Differentiate between while loop and do-while loop.

6. Explain the syntax of declaring a 1-dimensional array with an example.

7. What is file? Give the purpose and syntax of fopen( ) and fclose( ).

Section - C

Answer any **four** questions. Each question carries **10** marks.   **(4×10 = 40)**

8. Explain arithmetic operators? Relation operators, logical operators with example.

9. What are unconditional control statements. Explain with example.

10. What is recursion? Write a recursive program to generate Fibonacci series.

11. What is string? Explain string manipulators with example.

12. Define array of structure? Explain with an example.

13. Explain the structure of C-program with sample example.

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