Detailed Contents

Programming Using C

Total Marks:100
External Marks:70
Internal Marks: 30
Credits: 4
Pass Percentage: 40%

Section A

Unit I: Simple Program logic, Pseudo-code, Problem Identification, Analysis, Flowcharts, and algorithms

Unit II: C Programming: character set, Identifiers and keywords, Data types, Declarations, Statement and symbolic constants, Input-output statements.

Unit III: Operators and Expressions: Arithmetic, relational, logical, unary operators, others operators,

Unit IV: Control statements: Branching, looping using for,while and do-while Statements, Nested control structures, switch, break, continue statements.

Section B

Unit V: Functions: Declaration, Definition, Call, passing arguments, call by value, call by reference, Recursion, Use of library functions; Storage classes: automatic, external and static variables.

Unit VI: Arrays: Defining and processing arrays, Passing array to a function, Using multidimensional arrays, Solving matrices problem using arrays.

Unit VII: Strings: Declaration, Operations on strings.

Unit VIII: Pointers: Pointer datatype, Structures: Using structures and union

Suggested Reading:

1. Byron S Gottfried, Programming with C| 4th Edition (Schaum's Outlines)

2. Yashavant Kanetkar, Let Us C, 17TH EDITION

3. E Balagurusamy, Programming in ANSI C