SX-7298   Seat No._____

M. C. A. (Sem. - I) Examination
April / May – 2006
P - 103 Programming & Data Structure
(New Course)

Time : **3** Hours]   [Total Marks : **75**

Q-1. Answer the Following Questions : (Any Three)   [15]
  [1] Explain the basic structure of C Program.
  [2] What is type-casting? Explain with suitable Example.
  [3] What is ternary operator? Give its example.
  [4] What is array? Explain its data storing mechanism. How it stores the values? Describe giving example

Q-2. Answer any three: [15]
  [1] Write a program in C for the following
       2 3 5 7 11 13 17 19 ………51
  [2] Write a program in C for the following
       1
       22
       333
       4444
       55555
  [3] Initialize an array of size 4 x 4 and get the elements from keyboard and print its column wise and row wise total and grand total of whole two dimensional array.
  [4] Initialize a structure name stud, which can store name, five subjects' marks. Store these all values for five students using structure array and print maximum total mark students information.

Q-3. Answer the Following Questions : (Any Three)   [15]
  [1] Differentiate getch(), getchar()
  [2] How switch case loop work? Explain giving example
  [3] Explain the use of fopen(), fprintf().
  [4] List and explain various file open modes.

Q-4. Answer any two: [20]
  [1] Write a program in C to create singly linked list with menu driven facility of create and delete function.
  [2] Write program in C for various Queue operations.
  [3] Write C Program for binary tree creation and display.

Q-5. Explain the syntax with example for the following functions(Any Two)   [10]
  [1] strcmp()
  [2] isupper()
  [3] strcat()

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