

2006 PUNJAB TECHNICAL UNIVERSITY M.C.A

PROGRAMMING IN C
MCA-102 , Ist Semester (2096)

Time: 3 Hours
Max Marks:75

**Note : 1. Part A is compulsory. Answer the questions in 40-60 words.
2. Attempt any nine questions from Part B**

Part A

- i. What are the operators and operands?*
- ii. What do you mean by iteration?*
- iii. What are multidimensional arrays?*
- iv. What are the disadvantages of recursion?*
- v. What are header files?*
- vi. What are user defined data types?*
- vii. Write syntax for union.*
- viii. What do you mean by enumeration?*
- ix. How can we pass parameters to a function?*
- x. What are data input and output statements?*
- xi. What is sequential organization?*
- xii. What are static variables?*
- xiii. What is the disadvantages of using goto statement?*
- xiv. What are different storage classes?*
- xv. What is the difference between else if and switch statement?*

Marks:15X2=30

- 1. What is the purpose of drawing flowchart? What are the various symbols used in the flowchart? Draw a flowchart to check whether number is even or odd.*
- 2. Explain assignment and conditional statements with example.*
- 3. What are the various operations that can be performed on arrays? How can we read and display one-dimensional array?*
- 4. Write a program in C to convert a decimal number into binary, octal and hexadecimal numbers.*

5. *What is the difference between getchar().getch() and getche()?*
6. *Explain various strings functions.*
7. *How can we copy and concatenate a string?*
8. *Explain different storage class specifiers in C.*
9. *Explain dynamic memory allocation.*
10. *Write a program in C to sort the list of numbers using selection sort method.*
11. *What are the different functions for opening and closing a data file.*
12. *What type of operations can be performed on pointers? How can we pass simple variable by pointers?*

Marks: 9X5=45

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