



NM-509 Seat No. _____
Final Year B.C.A. (Sem. II) Examination
October - 2004
Programming Language - I ✓

Time : Hours]

[Total Marks :

- Instructions :
- (1) The question paper contains 5 questions.
 - (2) Question No. 1 is compulsory.
 - (3) Mention your choices clearly ; do not intermix your options.
 - (4) Use space properly ; do not waste paper.

1 Answer in brief :

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- (1) What is the meaning of an *extern* keyword in C ?
- (2) How comma operators are useful in *for* loop ?
- (3) Explain how strings are used in C.
- (4) What is the use of indirection operator ?
- (5) What is the importance of *main()* function ?
- (6) Explain the meaning of function prototype : double funcA (double, int).
- (7) How many values can function return ?
- (8) If an array is declared as `char A[10] [100]`; what is referred to by `A[10]` ?
- (9) What values are automatically assigned to those array elements not explicitly initialized ?
- (10) Give the difference between auto and static variables.

2 (a) Explain function prototype in detail with example. 4

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(a) What is meant by the scope of variables ? Summarize the variable types of storage class in C.

(b) What is an operator ? Describe several types of operators and their precedence levels in 'C'. 5

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- (c) Develop a program to tabulate the marks of the students in a class. Assuming that the following items are read from the keyboard: roll no., name of student, 5 subjects and its marks. Find the total and average mark of each student and display it in a tabular form. 6
- OR
- (c) Write a program to sort the elements of a two-dimensional array.
- 3 (a) Explain multidimensional array in C. Write different ways to initialize two-dimensional array within its declaration ? 4
- OR
- (a) Explain the primary data types with examples. 5
- (b) Explain Call by value and Call by reference with examples. 5
- (c) Write a C program to concatenate two strings using pointers. 6
- OR
- (c) Write a program in 'C' to print first n prime numbers.
- 4 (a) What do you understand by a pointer to the structure ? Explain how can one access member variables of structure using pointer to the structure with example. 4
- (b) Explain how pointers are passed to function with examples. 5
- (c) Define a structure cricket (Player name, team name, batting average). 6
- Write a program to read the information about 5 players and print batting average.

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(c) Write a program to create a data file containing the list of customers and their telephone numbers. Use a structure variable to store the name and telephone of each customer.

5 (a) Write a function using pointers to add two matrices and to return the resultant matrix to the calling function.

(b) Write a program that appends one file into another.

OR

(b) Write a program to count number of capital letters from a file.

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