

**OCTOBER 2012 P/ID 17453/RCC/PCAE**

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Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Write about Constants in C.  
Or  
(b) Write short notes on
  - (i) While
  - (ii) Do-while.
2. (a) With examples, explain the method of defining and accessing a function.  
Or  
(b) Write a C program to find the factorial of a given number using recursion.
3. (a) Write a C program to interchange two values using pointers.  
Or  
(b) Write short notes on function with arrays.

4. (a) Describe structures.

Or

(b) Write short notes on preprocessor.

5. (a) Discuss on fscanf ( ) and fprintf ( ) functions.

Or

(b) Explain Error handling mechanism during I/O operations.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Explain the four basic data types supported by 'C'.

7. Explain the various forms of 'if' statement.

8. Discuss on Fundamentals, declarations and operations of pointers.

9. Write a C program to multiply two matrices.

10. Explain storage classes in C.

11. Discuss on defining and using structure in C with example.

12. Explain user-defined data types with examples.

13. A file named DATA which contains a series of integer numbers. Write a C program to read these numbers and then write all odd numbers to a file to be called ODD and all even numbers then to a file to be called EVEN.
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