



Reg. No. :

Name :

**First Semester M.C.A. Degree (Reg./Supple./Imp.)
Examination, February 2015
MCA 1C04 : FUNDAMENTALS OF PROGRAMMING
(2014 Admn.)**

Time : 3 Hours

Max. Marks : 80

SECTION – A

Note : Answer **any ten** questions. **Each** question carries **three** marks. **(10×3=30)**

1. What is flowchart, draw a flow chart for finding smallest and largest of ten numbers ?
2. Compare and contrast interpreter and compiler.
3. Define identifier with suitable examples.
4. What are the significant features of type casting in C-Programming ?
5. Discuss the syntax of switch statement.
6. What are the different macro directives in C-Programming ?
7. Distinguish between Iteration and recursion function.
8. Define array, explain 1-D, 2-D and Multidimensional arrays.
9. Write a C-program to find trace of a given matrix of order $m \times n$.
10. Explain the function `fopen()` , `fscanf()` and `fprintf()` .
11. Write a program to copy the contents of one file into another.
12. What are the importances of enumerated data types ?



SECTION – B

Note : Answer all questions. Each question carries ten marks. (5×10=50)

13. Write a C-Program to find the possible roots of a quadratic equation with all conditions.

OR

Write a menu driven program to generate the First N-prime numbers and First Fibonacci sequence numbers.

14. Discuss the various logical, relational and arithmetic operators in C-Program.

OR

Describe the significant features of control statements in C-Program with suitable examples.

15. What is structure ? Write a general format of structure, distinguish between structure and union with suitable examples ?

OR

Write a function using pointers to exchange the values stored in two locations in the memory.

16. Write a C-Program to read n-positive integers and print numbers of odd and even numbers.

OR

Write a C-Program to create a text file, each record of the file should contain a name and number.

17. Write a C-Program accept square matrix of order N and then determine the following :

- i) Sum of each row
 - ii) Sum both primary and secondary diagonal elements.
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