M 26829

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 × 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 ?

P.T.O.

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 digital elements.
