



K17P 0235

Reg. No. :

Name :

**First Semester M.C.A. Degree (Reg./Supple./Imp.)
Examination, January 2017
MCA1C04 : FUNDAMENTALS OF PROGRAMMING
(2014 Admn. Onwards)**

Time : 3 Hours

Max. Marks : 80

Instructions : Section – A : Answer **any ten** questions, **each** question carries **three** marks.

Section – B : Answer **all** questions, **each** question carries **ten** marks.

SECTION – A

Answer **any ten** questions, **each** question carries **three** marks.

(10×3=30)

1. Compare and contrast flowchart and algorithm.
2. Explain the general structure of a C-Program with suitable example.
3. What are the significant features of scanf() and printf() functions ?
4. With syntax and example, discuss for-loop statement in 'C'.
5. What are the differences between break, continue and goto statement.
6. What are the merits of functions in a 'C' Program ?
7. Distinguish between local and global variables.
8. Discuss the string operation function with examples.
9. Write a 'C' Program to print today's date.
10. Compare and contrast recursion and iteration function.
11. What are the various modes of operations that could be performed on a sequential file ?
12. Discuss important preprocessor directives.

P.T.O.



SECTION - B

Answer all questions, each question carries ten marks.

13. a) i) What are the significant features of linker and loader. 5
ii) Discuss the features of 'C' Programming language. 5
OR
- b) i) Describe the classification of various programming language. 5
ii) Write flowchart and algorithm for prime number generation. 5
14. a) i) Describe the primitive data types of 'C' Program with suitable examples. 10
OR
- b) i) Explain the different storage class specifications in 'C' with suitable examples. 10
15. a) i) Write a program to find GCD of 2 numbers. 5
ii) Discuss the different decision control and looping statements in 'C' with suitable examples. 5
OR
- b) i) Write a 'C' Program to illustrate the recursive function. 5
ii) Compare and contrast pointed and arrays, formal and actual arguments. 5
16. a) i) Write a 'C' Program to find the largest of two numbers using pointers. 5
ii) Explain the concept of dynamic memory allocation. 5
OR
- b) i) Explain in detail any four string manipulation functions. 5
ii) Give the various ways of initialization of single and two dimensional arrays. 5
17. a) i) Distinguish between sequential and random files. 5
ii) Explain the different macro directives with suitable examples. 5
OR
- b) i) Discuss any two header files features in 'C' program. 5
ii) Write a command line program in 'C' to append one file at the end of another. 5