



K19P 1384

Reg. No. : .....

Name : .....

I Semester Master of Computer Application (M.C.A.) Degree  
(Reg./Supple./Imp.) Examination, November - 2019  
(2014 Admission Onwards)  
MCA1C04 : FUNDAMENTALS OF PROGRAMMING

Time : 3 Hours

Max. Marks : 80

**SECTION - A**

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

1. Write and explain any two preprocessor directives in C.
2. Write and explain the basic concepts of a C program.
3. When is a switch statement better than multiple if statements?
4. What is a pointer to a function? Give the general syntax for the same.
5. What are the different ways of passing parameters to the functions? Which to use when?
6. How to convert strings to numbers in C?
7. What is the difference between variable declaration and variable definition?
8. How to construct an increment statement or decrement Statement in C?
9. Mention the uses of enumerated types?
10. What are multidimensional arrays?
11. List the different data types in C?
12. Describe how arrays can be passed to a user defined function

**SECTION - B**

Answer all questions. Each question carries ten marks.

13. a) i) Explain array of structures and structure within a structure with examples. (5)
- ii) Write and explain the basic concepts of a C program. (5)
- (OR)**
- b) i. Discuss about the constants, expressions and statements in 'C'. (5)
- ii. Illustrate about the various data types in 'C'. (5)

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14. a) i. Explain the different types of loops in C with syntax and example. (5)  
ii. Explain the use of break and continue statement in loops with example. (5)

(OR)

- b) i. Summarize the various types of operators in 'C' language along with its priority. (5)  
ii. Design and develop a C program to reverse of an integer number NUM and check whether it is PALINDROME or NOT. (5)
15. a) i. What is function overloading? Explain with an example program. (5)  
ii. Discuss about the classification of functions depending upon their inputs and output (parameters) (5)

(OR)

- b) i. Explain the different parameter passing mechanism .Include suitable examples. (5)  
ii. Explain pointer arithmetic with example. (5)
16. a) i. What is function parameter? Explain different types of parameters in C Functions. (5)  
ii. What is a union? Explain the syntax of union declaration with example. (5)

(OR)

- b) i. How to Accessing the structure member through pointer using dynamic memory allocation. (5)  
ii. Write a C program using structures to prepare the students mark statement. (5)
17. a) i. Explain the read and write operations on a file with a suitable program. (5)  
ii. Compare Sequential access and Random access file. (5)

(OR)

- b) i. Describe the various functions used in a file with example. (5)  
ii. Write a C Program to print the contents of a File in reverse. (5)
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