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Roll No. ....

**3rd Sem / Elx, Mechatronics, Med. Elx.**  
**Subject:- Computer Programming in C**  
**/ Comp. prg. & App**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which of these is NOT a relational or logical operator?
- a) =                                      b) ||  
c) ==                                    d) !=
- Q.2 We cannot use the keyword 'break' simply within\_\_\_\_\_.
- a) while                                b) for  
c) if-else                               d) do-while
- Q.3 The global variables are\_\_\_\_\_.
- a) External  
b) Internal  
c) Both external and Internal  
d) None of the above
- Q.4 In the C language, the constant is defined\_\_\_\_\_.
- a) Before main  
b) After main

- c) Anywhere, but starting on a new line.  
d) None of these

- Q.5 How many times will the following loop execute?  
for (j=1; j <= 10; j=j-1)
- a) Forever                              b) Never  
c) 0                                        d) 1
- Q.6 What is an example of iteration in C?
- a) for                                      b) while  
c) do-while                              d) all of the above
- Q.7 scanf() is a predefined function in \_\_\_\_\_ header file.
- a) stdlib.h                               b) ctype.h  
c) stdio.h                                d) stdarg.h
- Q.8 The operator && is an example for \_\_\_\_\_ operator.
- a) Assignment                           b) Increment  
c) Logical                                d) Rational
- Q.9 Which is the correct way to declare a pointer?
- a) int\_ptr;                                b) int\*ptr;  
c) \*int ptr;                               d) None of these
- Q.10 Operator precedence determines which operator
- a) Operators on the largest number  
b) Is used first  
c) Is most important  
d) None of these

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 How do you declare a variable that will hold string values?
- Q.12 When is the "void" keyword used in a function?
- Q.13 How do you insert comments in a C program?
- Q.14 What is logical error?
- Q.15 What is debugging?
- Q.16 What does the || operator do in a program code?
- Q.17 Define an array.
- Q.18 What is a function?
- Q.19 Give syntax of scanf statement
- Q.20 What is the difference between gets and puts?

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What are header files and what are its uses in C programming?
- Q.22 What are variables and in what way is it different from constants?
- Q.23 How do you access the values within an array?
- Q.24 Write a program to find if a number is even or odd.

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- Q.25 What are the different types of control structures in programming?
- Q.26 What are pointers? Explain with example.
- Q.27 Create a simple code fragment that will swap the values of two variables num1 and num2.
- Q.28 Define array. What are various types of array?
- Q.29 Write a program to print table of number.
- Q.30 Give advantages of using functions in a program.
- Q.31 Discuss the formatted input and output statement used in C.
- Q.32 Difference between while and do-while loops.
- Q.33 Give the syntax of switch statement. Discuss in brief.
- Q.34 What is flowchart? Draw a flowchart to find greatest of three numbers.
- Q.35 What is an infinite loop. Explain with an example.

## SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Write a program in C for multiplication of two matrices.
- Q.37 Discuss the various operators used in C.
- Q.38 Explain the steps involved in development of a program.

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