

**M.Sc. ELECTRONICS**  
**First Semester**  
**C PROGRAMMING**  
**(MSE - 102)**

**Duration: 3Hrs.**

**Full Marks: 70**

Part-A (Objective) =20  
Part-B (Descriptive) =50

**(PART-B: Descriptive)**

**Duration: 2 hrs. 40 mins.**

**Marks: 50**

**Answer any *five* of the following questions:**

1. Name and describe the three basic data types in C. Differentiate between constant and variable. Write a program to find the sum of any 10 numbers without using array. (3+2+5=10)
2. What is looping in C? Describe types of looping with example. Write a program to find the sum of  $1^2 + 2^2 + 3^2 + 4^2 + \dots$  upto  $n$  terms. (2+3+5=10)
3. What is structure? Write a program to create a structure and store the information of students then display them. (2+8=10)
4. What is file and basic file operation? Write a program to create file and read some contents in it and fetch the information from the file. (3+7=10)
5. Write a program to find the greatest of three numbers by using function with (a) pass by value and (b) pass by reference. (5+5=10)
6. Write short notes on: (any *two*) (5+5=10)
  - a) Operator
  - b) Function
  - c) Structure



7. What is storage class? How many storage class exists in C, explain with example.

(2+8=10)

8. What is an expression? Write about the different categories of operator in C.

(2+8=10)

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**Duration: 20 minutes**

**Marks – 20**

**(PART A - Objective Type)**

**I. Choose the correct answer:**

**1×10=10**

1. An identifier is a  
A. token  
B. keyword  
C. function name  
D. all of the above
2. The size integer is  
A. 1 byte  
B. 2 bytes  
C. 3 bytes  
D. 4 bytes
3. C-Language is  
A. Middle-level language  
B. Low -level language  
C. High-level language  
D. None of the above
4. In C language, ++ is  
A. A binary operator  
B. A unary operator  
C. A logical operator  
D. None of the above
5. Branching are mainly  
A. Two types  
B. Three types  
C. One type  
D. All of the above
6. goto is a  
A. Conditional statement  
B. Unconditional statement  
C. Not a statement  
D. None of the above
7. In C, "A" is  
A. Character constant  
B. String constant  
C. Array  
D. None of the above
8. If a function calls itself then it is called  
A. A Continuous function  
B. A recurrence function  
C. A recursive function  
D. None of the above



9. In a function parameters can be passed as  
A. By value                      B. By reference  
C. Both (A) & (B)              D. none of the above
10. An array are of  
A. Generally one kind          B. Two kinds  
C. Three kinds                  D. None of the above

**II. Fill in the blanks:**

**1×5=5**

1. A character is \_\_\_\_\_ byte(s).
2. Formal declaration of a function is also known as \_\_\_\_\_.
3. \_\_\_\_\_ is necessary before calling a function.
4. A loop is used when \_\_\_\_\_.
5. The starting address of an array is \_\_\_\_\_.

**III. State true or false:**

**1×5=5**

1. An array can be of any size including infinite.
2. An integer can be converted to another data type in C.
3. A function without parameter can be used only in recursive function.
4. A function is also called module in C.
5. A pointer is a variable which can store the address of a variable.

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