



- Notes : 1. All questions are compulsory and carry equal marks.  
2. Use either ANSI 'C' or Turbo 'C' for program writing.

**Either**

1. a) Define a function. Explain the necessity of user defined function in a 'C' program. **10**  
Explain the function with argument and return values. Give suitable examples.

**OR**

- b) What is array ? **10**  
Discuss syntax, declaration & initialization of one dimensional and two dimensional array in 'C' language.

**Either**

2. a) Define a structure. Explain the structure initialization with an example. **10**  
Explain following string functions  
i) strcat ( )                      ii) strcmp

**OR**

- b) Explain the concept of pointer and state the rules of pointer arithmetic ? **10**  
Explain an union with suitable example. How does it differs from structure ?

**Either**

3. a) Explain the various operating modes of file handling in C. **10**  
Write a program in 'C' to merge the two files.

**OR**

- b) What is a data file ? What are the functions used for opening and closing a file ? Give their syntax. **10**  
Write a program in 'C' to enter ten integer value in a file "sample.dat" and display the contents of file on the screen.

**Either**

4. a) Differentiate between C and C++ **10**  
Explain Identifiers, constants and variables in C++.

**OR**

- b) Explain the concept of object oriented programming ? **10**  
State and explain any two applications of OOP ?

5. a) Explain static storage class with respect to its scope, lifetime, storage and default initial value. **2½**

- b) Explain nested structure with an example. **2½**

- c) What are the common uses of rewind and f tell functions. **2½**

- d) Differentiate between identifier and constant in C++. **2½**

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