



- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram wherever necessary.
 3. Avoid vague answer.

Either.

1. a) Write a program to rotate (Move) all array values upside by one position. **5**
 - b) Explain the Strcpy(), Strcmp() Library functions with suitable example. **5**
- OR**
- c) Write a program to search a value k in array of size n and display appropriate message. **5**
 - d) Explain the initialization of two Dimensional array with suitable example. **5**

Either.

2. a) Explain the structure with suitable example. **5**
 - b) Differentiate between structure and Union. **5**
- OR**
- c) Explain the array of structure with suitable example. **5**
 - d) Write a program in C to define student record containing roll no, name, 3 subject marks (m1, m2, m3), Total marks and percentage. **5**
Calculate total marks = m1+m2+m3
Percentage = total marks/450x100 and display the result in suitable form.

Either.

3. a) Explain abs() and ceil() arithmetic functions with suitable example. **5**
 - b) Write a user defined function to calculate fractional value of a number. **5**
- OR**
- c) Discuss the function type with argument and no return value with suitable example. **5**
 - d) Write a recursive function to calculate product of 2 numbers. **5**

Either.

4. a) Write a program to demonstrate call by reference with suitable example. **5**
 - b) List the file modes that are available in 'C' language. Explain any one of them. **5**
- OR**
- c) Write a program to read a student file (roll, name) and display it. **5**
 - d) Explain the functions feof(), ferror(). **5**

5. All the following questions are compulsory.
- a) Write a program to assign all array values and display it. **2½**
- b) Define a structure called cricket that will describe the following information player name, team name, batting average. **2½**
- c) Explain the static storage class. **2½**
- d) Discuss how pointer is initialized with suitable example. **2½**
