



- Notes :
1. All the questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram wherever necessary.
 3. Avoid vague answers and write answers relevant and specific to questions only.

Either

- 1
- a) Explain in detail conceptual development of solution. **8**
 - b) Define flowchart. Write its advantages and disadvantages. **8**

OR

- c) Write an algorithm and draw a flowchart to find simple interest. **8**
- d) Explain Relational and Logical operator with example. **8**

Either

- 2.
- a) Explain in detail various storage classes available in C. **8**
 - b) Write a program to make a arithmetic calculator which can perform addition, subtraction, multiplication, and division as per user's choice. **8**

OR

- c) Explain decision-control structure with example. **8**
- d) Write a program to find sum of odd numbers between X and Y. **8**

Either

- 3.
- a) Explain the concept of structure with suitable example. **8**
 - b) Write a program to enter an array of 20 elements and search for a particular element using binary search. **8**

OR

- c) Explain in detail the concept of function. **8**
- d) Write a program to enter a string and count the number of characters without using library function. **8**

Either

- 4.
- a) Explain in detail the concept of file. **8**
 - b) Write a program to demonstrate call by Reference. **8**

OR

- c) Explain any four file handling function. **8**
- d) Write a program to demonstrate Malloc () function. **8**

- 5.
- Attempt all the questions.
- a) Write a short note on type casting. **4**
 - b) Explain in brief goto statement. **4**
 - c) Write a note on enum. **4**
 - d) Differentiate between call by value and call by reference. **4**
