

- P.T.O

**Either:**

4. a) Explain the concept of pointer in detail. How it is useful. 8
- b) Write a program to find area and circumference of a circle in function. Print the result in main (Use call by reference) 8

**OR**

- c) Explain the concept of file. What are the various operations performed on files? 8
- d) Write a program to enter 'n' numbers in a file. After entering read the numbers in reverse order. 8
5. Attempt **all** the questions.
- a) Write a short note on problem analysis. 4
- b) Differentiate between while and do-while loop. 4
- c) Write the difference between structure and union. 4
- d) Write and explain any two-file handling function. 4

\*\*\*\*\*