Important Questions

Computer Programming and Application

Short Answer Questions

- 1. Define a program with example.
- 2. Define an Algorithm and Flowchart.
- 3. Define Interpreter. How it is different from compiler?
- 4. What are identifiers and keywords?
- 5. What are different data types available in C?
- 6. Explain precedence and associativity of C operators.
- 7. What header file is needed for the function getchar ()?
- 8. Explain switch statement function in C.
- 9. What is library function?
- 10. What do you understand by recursion?
- 11. What is a pointer?
- 12. Explain address of and value at with example.
- 13. Differentiate between malloc() and calloc() function?
- 14. What are advantages of array?
- 15. What do you mean by array?
- 16. What are strings?
- 17. How pointers are related to string?
- 18. Write a short note on character arrays.
- 19. Define Structures.
- 20. Explain memory organization of structures.
- 21. What are unions? Explain.

Long Answer Questions

- 1. Draw a flowchart to determine whether a given year is leap or not.
- 2. What are language processors? Explain working of compiler.
- 3. Write down structure of a C program and briefly discuss its each section.
- 4. What are different operators available in C and how they are categorized?
- 5. Explain various input and output statements used in C languages.
- 6. Write a C program to find the sum and average of a given N numbers.
- 7. Explain the difference between if-else and switch statements.
- 8. Write a program in C to find the factorial of a given number.
- 9. Explain various storage classes by giving examples of each.
- 10. Write a function to print first N teams of a Fibonacci sequence.
- 11. How pointers can be used to return multiple values from a function? Explain.
- 12. Write a program in C to multiply two matrices.
- 13. How many arrays are there? Explain in detail.
- 14. How pointers are useful in accessing arrays? Explain.
- 15. Explain any 5 standard library functions for handling strings.
- 16. How strings are passed to functions? Explain with example.
- 17. Differentiate Structure and array. Explain with example.
- 18. Write a program in which a structure is passed to function.
- 19. What is MATLAB? Why it is used? Explain in detail.
- 20. Explain the uses of PSIM software in electrical engineering.
- 21. Write a short note on :
 - a. ORCAD
 - b. PSPICE