

Lokmanya Tilak Jankalyan Shikshan Sanstha's

Lokmanya Tilak College of Engineering



(Approved by AICTE, Affiliated to University of Mumbai, & Accredited by NAAC 'A' Grade) Sector-4, Vikas Nagar, Koparkhairane, Navi Mumbai - 400 709

Academic Year 2023-24

IA-II Question Bank

Subject: C- Programming Semester: II

- 1. Differentiate between structure and union.
- 2. Write a program in C to find the average of N elements entered by a user using an array.
- 3. Write a program to store information of 10 students using structures. Information includes roll, name, marks of students.
- 4. Explain nested structure with examples
- 5. Create Structure Patient having ID, patient name and disease name as data member. WAP to read the details of 10 patients and print details of those patients having 'diabetes'.
- 6. Write a program to check whether a square matrix is symmetric or not.
- 7. Write a program to accept a string from the user and check whether the string is palindrome or not without using the inbuilt string function..
- 8. Explain following function with proper example:strrev(), strcmp().gets(),strcpy,strlen(), 2 library functions of math.h.
- 9. Explain compile time and runtime initialization of arrays with proper examples
- 10. Define array? Explain the static and dynamic initialization of the 1D array.
- 11. WAP to find the sum of even elements present in an array.
- 12. What is an array? what an array name signifies. Can array index be negative?
- 13. What is a string? WAP that will read a word and rewrite it in alphabetical order.
- 14. Write a program to perform matrix multiplication by passing input matrix to the function and printing the resultant matrix.
- 15. WAP to find the average of N elements entered by a user using an array.
- 16. WAP to find the transpose of a matrix using only one matrix.
- 17. Explain pointers with examples. How an array is related to a pointer.
- 18. How do pointers differ from variables in C. Write a program to add 2 pointers.
- 19. Write a program to find a factorial of a given number using call by reference.
- 20. Explain the Dynamic memory allocation.
- 21. Write a note on pointer initialization and dereferencing of pointer.
- 22. Write a program to calculate the sum of series x-x/2!+x/3!-x/4!....x/n
- 23. WAP to convert decimal numbers into any base.