Model Question Bank

Module 3: Functions and Arrays

1. What is array ? Explain the declaration and initialization of one dimensional and two dimensional array with an example
2. Write a C program to read N integers into an array A and to find the (i)sum of odd numbers,(ii) sum of even numbers,(iii) average of all numbers. Output the results computed with appropriate headings
3. Write a C program for [consider integer data] (i) Bubble sort (ii) Linear search
4. Write a C program to find the transpose of a given matrix
5. Write a C program that accepts (3×3 ordered matrices A and B),and compute the following (i)summation of Two numbers (ii) Subtraction of Two numbers
6. Write a C program to find the sum and average of n integer numbers
7. Write a C program to find the largest element in an array
8. Demonstrate the use of C user-defined functions with a suitable example
9. What is recursion? Write a C program to computer factorial using recursion
10. Differentiate between call by value and call by reference using suitable examples
11. Define a function. List various advantages of a function.
12. How actual parameters are different from formal parameters? Explain
13. Write a C program to find factorial of a given number using recursion function.
14. List any five built-in functions and explain any two of them.
15. Develop a C program to print Fibonacci series using recursion.
16. Define function? Develop a C program to add two integers using functions
17. Define storage class explain the different storage classes supported by c
18. Develop a C program to sort the given set of N numbers using bubble sort
19. Develop a C program to implement matrix multiplication and validate the rules of multiplication
20. With a neat diagram, Explain three dimensional array write a C program to read and display 2x2x2 array
21. Discuss various scope of variables
22. How to pass parameters to the function? Explain with a suitable example?

23. Explain the different types of function based on the parameters ?
24. Write a C program to search a key element in the given array of integers numbers using binary search technique.?
25. List the advantages and disadvantages of array.
26. Differentiate between recursion and iteration.
27. Distinguish between built-in and user-defined functions.
28. List any 6 benefits of functions
29. Define the following :
    i.   Actual parameter
    ii.   Formal parameter
    iii. Global variable
    iv.   Local varaiable
30. Explain how to pass an array as a parameter to function with suitable example.