Unit 1: Introduction to C language

1. Enlist the features of C.

2. Explain different data types used in C language?

3. Explain type identifiers in C?

4. Explain in brief structure of C programming?

5. what is operator enlist all operators used in C?

6. what is data type explain the any four data types used in C language?

7. Explain the difference between '=' and '==' operator explain with example?

8. Write a short note precedence & order of evaluation?

9. Differentiate between relational and logical operators used in C?

10.Write short note on Input & Output functions used in C (i.e. print &scanf functions?

Unit 2 : Managing IO operations

1. what is variable? What are the rules for defining variables?

2. Differentiate between local variable and global variable?

3. Explain symbolic constan5ts used in C?

4. Explain any two bitwise operator with suitable example.

5. Explain with example ++i and i++.

6. Explain logical operators and expressions used in C?

7. Explain the following g functions i)getch() and ii) clrscr()

8. Explain printf() function with an example

9. Explain scanf() function with an example

10. Explain the following functions with example 1)getchar() 2)putchar()

11. Explain the following functions with example 1)getche() 2)putche()

12. Explain the following functions with example 1)getch() 2)putch()

13. Explain sizeof operator with example.

14. Explain conditional operator with example.

Unit 3 : Decision Making and looping

1. Explain syntax and use of Do__While statement

2. Which looping statements does C provides?Explain any one.

3. Explain explain continue And break statements

4. Explain switch statement with its syntax and example.

5. What is Nested if else explain with an example?

6. Explain nested for loop with an example

7. What is mean by conditional expression?

8. What is looping in C? What are the advantages of looping?

9. What is the nested for loop?

10. Compare while loop and for loop with example.

11. What is crucial importance of main() in C.

12. What is use of continue in C.

Unit 4 : Programs through conditional and looping statements

1. Write a C program to find the maximum of three numbers using conditional operators

2. Write a C Program to sort an array in ascending order

3. Write a C Program to sort an array in descending order

4. Write a C Program to find sum of digits in a given number

5. Write a C Program to print square of all numbers 1 to 20 and print sum squares

6. Write a C Program to check if given number is present in an array or not

7. Write a C Program to find the position of given number in array

8. Write a C language program to check whether given number is prime or not.

9. Write a C language program using recursive function to enter 4 digit number and find the

   sum of all digits of the number .

10. Write a C language program to print all armstrong numbers between 1 to 500

11. Write a C language program to find whether given number is palindrome or not.

12. Write a C language program to find GCD of given two numbers.

Unit 5 : Arrays and Strings

1. What is array? How to declare array?Explain with suitable example.

2. Explain one dimensional array with an example

3. Explain Two dimensional array with an example

4. Explain applications of array

5. What is an array and how array variable differs from ordinary variable.

6. What is an array indexing explain with an example

7. When sorting the elements of an array is it necessary to use another array to store the sorted elements explain?

8. What are the rules used to declare a one dimensional array

9. What are the rules used to declare a two dimensional array

10. What are the rules used to declare a multi dimensional array

11. What is character array how it differs from other data types.

12. Distinguish between character array and string

13. Explain applications of array

Unit 6 : Functions

30. Explain any 4 string functions with suitable example?

31. What is the difference between call by value and call by reference

32. What is recursion explain with suitable example.

33. Explain Automatic storage class specifier

34. Explain Static storage classs

35. Explain Register storage class

36. Explain Extern storage class

37. For what purpose '\0' is used in string operations explain with suitable example.

38. What is function ?how function is defined.

39. Explain the difference between calling function and called function?

40. Explain void function?

Unit 7 : Introduction to pointer

41. Explain what is pointer?expalin with suitable example

42. Explain pointer to structure in detail.

43. Explain pointer to function in detail.

44. Explain explain any one dynamic memory allocation

45. Explain how to access a value using pointer?give a suitable example.

46. Write a short note on pointer to pointer

47. Distinguish bet malloc and calloc()

167. What is a pointer?What is the use of pointer in C

Unit 8 : Structures

1. What is structure? Explain with suitable example

2. Explain array of structure with example

3. Explain Nested structure with example.

4. Distinguish between Structure and Union

5. Differentiate structure and array

6. Describe programming approach

7. Explain the use of Typedef

8. What are the similarities and difference between structure and union.

9. Explain nested structure.

10. Explain array of structure. 88. Explain pointer to structure.

11. What is the structure and what are the uses of it.

12. Distinguish structure data type with other data type variables.,

13. How structure different from array