# **QUESTION BANK**

# **MODULE I**

## **INTRODUCTION TO C LANGUAGE**

- 1. Explain the input & output statements with examples. (JULY 2014, JUN/JULY 2015)
- 2. Draw the structure of a C-program & explain in brief.(DEC/JAN 2014, JULY 2014, JAN 2015)
- 3. Explain the different phases of solving a given problem using computer. (JUN/JULY 2013)
- 4. What are tokens? Explain the various types of tokens with example. (JUN/JULY 2013, JAN 2014, JUN/JULY 2015)
- 5. Explain software development life cycle. (JUN/JULY 2013)
- 6. What are identifiers? Discuss the rules to be followed while naming identifiers. Give Examples. (JUN/JULY 2013)
- 7. Explain format specifiers used in scanf () function to read int, float, char, double and Longint datatypes. (JUNE/JULY 2013)
- 8. Explain different datatypes available in C (DEC /JAN 2014, JUN/JULY 2015)
- 9.Explain precedence and associativity of operators in C with example (JUN/JULY2013, JAN 2015)
- 10. What is type conversion? What are the different ways of type conversion? Explain with an example. (JUN/JULY 2013, JAN 2015)
- 11. Write C program to swap values of two integers without using third variable. (JUN/JULY2013)
- 12. Find the result of each of the following expressions with i=4, j=2, k=6, a=2. i) k\*=i+j ii) j=j/=k iii) i%=i/3 iv) m=i+(j=2+k) v) a=i\*(j/=k/2) (JUN/JULY 2013)
- 13. Explain relational operators in C, with examples. (JAN 2014, JULY 2014, JAN 2015, JUN/JULY 2015)
- 14. Explain bitwise operators in C.( JAN2014, JULY 2014, JUN/JULY 2015)

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- 15. Explain unary operators in C. (JAN 2014).
- 16. Write a c program which takes as input p,t,r compute simple interest and display the result(JUNE/JULY 2015).

# **MODULE II**

#### **BRANCHING AND LOOPING**

- 1. List the different decision making statements. Explain any 2 with their syntax & example (JUN/JULY2013,JAN 2015,JUN/JULY 2015).
- 2. Write the c-code to find the factorial of a number with all the looping statements. (JAN2014)
- 3. Explain the use of break & continue statements. (JAN 2014)
- 4. Differentiate between while and do-while statements, with an example for each. (JUN/JULY 2013, JUN/JULY 2015)
- 5. Write a 'C' program to calculate area of circle, rectangle and triangle using switch statement. Area of circle =  $\pi * r * r$  Area of rectangle = length \* breadth, Area of triangle = 0.5\*base\*height. (JUN/JULY 2013)
- 6. Write a C Program to find roots of Quadratic equation. Consider all possible cases of roots (JUN /JULY 2014.JAN 2015)
- 7. Differentiate pre-test and post-test loops. Illustrate your answer with suitable example. (JUN/JULY 2013, JAN 2015)
- 8. Explain deciration and syntax of while and do while loop (DEC/JAN 2014, JUN/JULY 2015).
- 9. Explain switch statement. (JULY 2014).

# **MODULE III**

## **ARRAYS, STRINGS AND FUNCTIONS**

- 1. Write a C-program to find GCD of two numbers. (JAN 2014)
- 2. Write a 'C' program using function, to compute the sum of N numbers. (JUN/JULY 2013)
- 3. Describe the different ways of passing parameters to a function? (JUN/JULY 2013, JAN 2014, JAN 2015)
- 4. What is formatted output? Explain output of integer & real no using an example for each. (JUN/JULY 2013)
- 5. Write C program to print n fibonacci numbers using function. (JAN 2013, JAN 2014)
- 6. Differentiate call by value and call by address. (JUN/JULY 2013, JAN 2015)
- 7. Explain scope of local and global variables with sample example (JUNE/JULY 2013)
- 8. What is a function? Describe with declaration syntax (DEC/JAN 2014/JAN 2015).
- 9. Explain different function designs. (JULY 2014).
- 10. Explain the declaration & initialization of 1-dimensional array, with an example. (JUN/JULY 2013, JULY 2014, JAN2015)
- 11. Explain the initialization & declaration of C –strings. (JULY 2014, JAN 2015)
- 12. Write a C-program to read an array of size 'N' & print the array elements. (JAN 2014)
- 13. What is an array? Write a program to print the sum of the two dimensional array and store the result into another array. (JAN 2014/JAN 2015)
- 14. Write a program that accepts a string and checks string is palindrome or not. (JAN 2014, JUN/JULY 2015)
- 15. Write a C program to search an element from unsorted list using binary search. (JUN/JULY 2013)

#### MODULE 1V

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## STRUCTURES AND FILE MANAGEMENT

- 1. What is structure data type? Explain (JAN 2015, JUN/JULY 2015)
- 2. Show how a structure variable is passed as a parameter to a function with an example (JAN 2015)
- 3. Explain the concept array of structures with a suitable C program (JAN 2015)
- 4. What is file? Explain fopen(), fclose() functions (JAN 2015)
- 5. Explain how the input is accepted from a file and displayed (JAN 2015)
- 6. Explain typedefined structure. (JUN/JULY 2015).
- 7. Write a c program to input the following details of N students using structure: ROLL no: integer, name: string, marks: float, grade: char Print the names of the students with marks>=70.0% (JUN/JULY 2015).

## **MODULE V**

#### **POINTERS AND PREPROCESSORS**

- 1. What is a pointer? Write a program in C to find the sum and mean of all elements in an array. Use pointer technology (JAN 2015, JUN/JULY 2015)
- 2. What is preprocessor directive? Explain #define and # include preprocessor directive(JAN 2015)
- 3. Explain a) Dynamic memory allocation
  b) Malloc() function (JAN 2015, JUN/JULY 2015)
- 4. What are premetive and non primitive data types (JAN 2015, JUN/JULY 2015)
- 5. Define Queue .Explain along with its application (JAN 2015)
- 6. Explain (JAN 2015, JUN/JULY 2015)
  - 1) Abstract data type
  - 2) Stack
  - 3) Linked list

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