# **QUESTION BANK**

## **BC 406 C: C LANGUAGE PROGRAMMING**

### UNIT 1

- 1. Define algorithm. Write characteristics of algorithm.
- 2. Differentiate between algorithm and flowchart.
- 3. What do you mean by programming system design techniques? Explain.
- 4. Differentiate among high level, low level and middle level language.
- 5. Differentiate among compiler, assembler and interpreter.
- 6. Write an algorithm to find sum of two numbers.
- 7. Draw a flowchart to find whether the number is even or odd.
- 8. Draw a flowchart to find greatest number among three numbers.
- 9. Draw a flowchart to check a number is prime number or not.
- 10. Write an algorithm and draw flowchart to find factorial of a number.
- 11. Define flowchart. What are the necessary steps to draw a flowchart?

#### UNIT 2

- 1. What do you mean by C character set, C variable, C constants? Explain in detail.
- 2. What do you mean by C keywords, identifier and literals? Explain with example.
- 3. Write the basic structure of C program and explain each and every keyword.
- 4. What do you mean by data types? How many data types does C language consist?
- 5. Explain all data types with their range and example.
- 6. What do you mean by type conversion? Explain its types.
- 7. Explain integer and float conversion with example.
- 8. Explain type conversion in assignment with example.
- 9. Define storage classes in C. Write importance of storage classes.
- **10**. Explain all storage classes in C with example.

#### UNIT 3

- 1. Define operator in C. What role an operator plays in C program?
- 2. Explain all types of operator available in C with example.
- 3. Write a program to swap two numbers without using third variable.
- 4. Write a program to swap two numbers using third variable.
- 5. What are decision control statements in C? Explain all with example.
- 6. Write a program to find a number is even or odd.
- 7. Write a program to find year is leap year or not.
- 8. Write a program to find greatest number among three numbers using nested if else.
- 9. Write a program to print sum of digits of a number using modulus operator.
- 10. Write a program to print reverse of a number.
- 11. Write a program that shows concept of switch case.
- 12.Write a program to find percentage, total marks and status(first division/second division/third division/fail) of a student by taking five subjects with the help of nested if-else.
- **13**. What are loop control structures? Explain for loop, while loop and do-while loop with their syntax.
- **14**. Explain break, continue and goto statement with example and their use.
- 15. Write a program to print series of number divisible by 3 from 1 to 100 using for loop.

- **16**. Write a program to find factorial of a number using for loop.
- 17. Write a program to print Fibonacci series.
- **18**. Write a program to find a number is prime number or not.
- **19**. Write a program to print pyramid of star using nested for loop.

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- 20. Write a program to print table of a number given by user.
- 21. Write a program to find a number is Armstrong number or not.
- **22**. Write a program to print series of number from 1 to 100 those are divisible by 5 and 7 both.

### **UNIT 4**

- 1. Define array. Explain the basic concept of array.
- 2. How to initialize array? Explain with example and write its uses.
- 3. Write a program to print number from 1 to 10 using array and fins sum of them.
- 4. Write a program to find maximum and minimum number from an array of 10 elements.
- 5. Define 2-D array with its syntax and explain how to initialize 2-D array.
- 6. How 1-D and 2-D array elements are stored in memory/ Explain with example.
- 7. What are strings? Explain with example.
- 8. What are string handlings functions? Explain all with their uses.
- 9. Write a program to addition of two 2-D array.
- 10. Write a program to multiplication of two 2-D array.
- 11. Write a program to find length of a given string using strlen() function.
- 12. Write a program to copy one string into another string using strcpy() function.
- 13. Write a program to concate two string using strcat() function.
- 14. Write a program to compare two string using strcmp() function.

### **UNIT 5**

- 1. Define structure and explain how it differs from other data types...
- 2. How to initialize and access member of structure? Explain with example.
- 3. Write a program that shows concept of structure.
- 4. How to declare structure? Write uses of structure.
- 5. What do you mean by array of structure? Explain with example.
- 6. Write a program that shows the concept of array of structure.
- 7. What are macros? Explain with example.
- 8. Explain #if, #elseif, #undef and #pragma directive with example.
- 9. Define C processor and write features of C processors.

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