

COMPUTER PROGRAMMING USING C

3rd/Comp/IT/Comp. Sc/0625/Nov'15

Duration: 3 Hrs.

M.Marks=75

SECTION-A

Note: Attempt all questions.

15x1=15

Q. 1. Do as directed:

- (a) input/output in flowchart are represented as circles. (T/F)
- (b) #include directive includes a file into code. (T/F)
- (c) HLL stands for
- (d) (void*)0 is representation of pointer.
- (e) Any C statement always ends with a
- (f) C uses aas a statement terminator.
- (g) * is an logical operator. (T/F)
- (h) An assembly language is a.....for computer.
- (i) The scanf() function reads output from stdin. (T/F)
- (j) The expression C = i++ means.....
- (k) \n signifies
- (l) C program must have a main() function. (T/F)
- (m) Data_type array_name [size] is declaration ofarray.
- (n) Theheader file contains string functions.
- (o) + + is a binary operator. (T/F)

SECTION-B

Q2.Note: Attempt any FIVE questions.

5x6=30

- a. Explain the difference between a compiler and interpreter.
- b. Write a program in 'C' to swap two numbers without using third number.
- c. How functions are declared in C language? Explain.
- d. Explain the syntax of for loop with example.
- e. Differentiate between Structure and Union by giving example.
- f. What are different types of operators in C?
- g. Explain the flow chart and all its symbols with diagram.

SECTION-C

Note: Attempt any THREE questions.

3x10=30

- Q. 3. Explain various storage classes by giving examples of each.
- Q. 4. WAP to check whether a given number is prime or not.
- Q. 5. Explain various input and output statements used in C language.
- Q. 6. Explain structure. How can you access data from a structure?
- Q. 7. Explain various built-in data types in C with example.

COMPUTER PROGRAMMING USING 'C'
3rd Exam/0625/0362/COMP/IT/CSE/Nov' 2016

Duration: 3Hrs

M. Marks=75

SECTION A

Q1 Do as directed:

10x1.5=15

- a. _____ is a source program which converts high level language into machine language.
- b. C language uses the _____ as a statement terminator.
- c. _____ Function is used to take one character as input "C" language.
- d. Define function.
- e. && is _____ operator in C.
- f. String is an array of _____ .
- g. Define structure.
- h. The two ways in which values are passed to a function are _____ and _____.
- i. Define pointer.
- j. _____ is a collection of same type of elements.

SECTION B

Q2 Attempt any Five questions:

5x6=30

- i. Explain structure of a C program.
- ii. Explain functions with suitable example and passing parameters to a function.
- iii. Explain Algorithms and flowchart with suitable example.
- iv. Explain tokens and its type in C language.
- v. Explain recursion with suitable example.
- vi. Write a program to find the factorial of a given number.

SECTION C

Q3 Attempt any THREE questions:

3x10=30

- 1) Explain operators and its types in C language.
- 2) Explain data types and types used in C language.
- 3) Write short note on following **(Any Two)**
 - 1) For loop
 - 2) while loop
 - 3) do-while loop
- 4) Write short note on following: **(Any Two)**
- 5)
 - 1) if statement
 - 2) if-else statement
 - 3) switch statement

COMPUTER PROGRAMMING USING 'C'
3rd Exam/Comp/IT/CSc/0625/0362/Nov'17

Duration: 3Hrs.

M.Marks.75

SECTION-A

Q1. Do as directed.

1.5x10=15

- a. Character range in c is from _____ to _____.
- b. _____ is used to convert Machine language code into High level language.
- c. = is _____ operator in C language.
- d. The C statement ends with _____.
- e. _____ is a collection of same type of elements.
- f. If a function call itself it is called _____.
- g. When a loop is defined within another loop, it is called _____.
- h. The variable that contains address of another variable is called _____.
- i. A function can return more than two values (T/F).
- j. Pointers are declared by using the _____.

SECTION-B

Q2. Attempt any five questions.

5x6=30

- i. Explain various symbols used in Flowcharts.
- ii. Difference between Call by value and Call by reference.
- iii. Explain the role of break statement in switch case.
- iv. Difference between Structure and Unions.
- v. Discuss various Data Types are used in 'c'.
- vi. Write a program to find factorial of a number.
- vii. Write a short note on while loop statement.
- viii. What is the role of pointer? Explain with example.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. Write a program in 'C' to sort the elements of an array in descending order.
- b. Explains various loops available in C with Example and syntax.
- c. Explain the various string manipulation functions in 'C'.
- d. What do you mean by operator? Explain various operator used in c language with example.
- e. Explain various file operation function in C.

COMPUTER PROGRAMMING USING 'C'
3rd/Comp/IT/CSE/0625/0362/May'16

Duration: 3 Hrs

M. Marks=75

SECTION A

Note: Attempt all questions.

15x1=15

Q.1. Do as directed:

- a. Every program statement in a C program must end with a.....
- b. The..... of all elements in an array must be same.
- c. Function always return a single value.(T/F).
- d. A Statement takes the execution control out of the loop.
- e. Logical errors are difficult to detect.(T/F).
- f. Empty parenthesis after main function is necessary. (T/F).
- g. 'C' is middle level language.(T/F).
- h. Function is used to open a file in C language.
- i. → Symbol is known as pointer.(T/F).
- j. Array is data type.(T/F).
- k. A..... Statement allows you to execute a statement repeatedly.
- l. An array which can hold the address of another array is called.....
- m. The keyword struct in C actually defines a
- n. The two ways in which values are passed to a function are.....and
- o.Function is used to release the memory allocated in dynamic memory allocation.

SECTION B

Q.2.Note: Attempt any SIX questions

6x5=30

- a. Differentiate between call by value and call by reference with example.
- b. Explain various relational operators in C.
- c. Write a program in C to find factorial of a number.
- d. Write a program in C to input a number and find whether it is even or odd.
- e. What is file? Explain various operations and function available for file in C language.
- f. Explain one dimensional and two dimensional arrays.
- g. Differentiate between flowchart and algorithm with example.
- h. What is function? Explain with help of program in C.
- i. Explain formatted and unformatted input/output statements used in C language.

SECTION C

Q3. Note: Attempt any TWO questions.

2x15=30

- a. Explain decision making with IF statement, IF-ELSE statement and NESTED-IF statement.
- b. Explain various data types in C language.
- c. Discuss the various storage classes available in C language.
- d. Write a program in C language to arrange the numbers in ascending order.
- e. Explain various loops available in C with syntax and example.

COMPUTER PROGRAMMING USING 'C'
3rd Exam/COMP/IT/CSE/0625/May'18

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Do as directed.

10x1.5=15

- a. An array is a collection of variables of the same type (T/F)
- b. Operators and values are combined to form..... .
- c.statements are used to read the contents of a specified file.
- d. Include statements are typically used to give names for constants (T/F)
- e. In count; statements are typically used to give names for constants (T/F).
- f. == isoperator.
- g. Arrays always number from..... .
- h. The..... loop keeps repeating an action until an associated test returns false.
- i. In input/output statement, data is read in or printed out (T/F).
- j.allows formatted reading of data from the keyboard.

SECTION-B

Q2. Attempt any five questions.

5x6=30

- i. Write basic functions that every c program contain.
- ii. Write a program to add up all of the integers in a single dimensioned array.
- iii. Write a program that adds three integers and print their sum.
- iv. What are basic I/O library functions in C?
- v. Explain various relational Operators in C.
- vi. Write a program which reads a line, stores it in a buffer, and prints its length.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. Discuss the various storage classes available in C.
- b. Explain various data types available in C.
- c. Write advantages of c program. Explain basic built in data types in C.
- d. Write short notes on
 - i. Files
 - ii. Pointers

S.B. Roll No.....

COMPUTER PROGRAMMING AND APPLICATIONS

3rd Exam/Elect/EEE/0526/6904/Nov'18

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Do as directed.

15x1=15

- A _____ is a graphical or symbolic representation of a process.
- CPL is an acronym for _____
- Any C statement always ends with a _____
- ML Stands for _____
- _____ computer languages are machine codes or close to it
- Compiler converts _____ language to machine language.
- A string in C is actually a character array (T/F)
- An array cannot be used as a member of a structure (T/F)
- C is case sensitive language. (T/F)
- Keywords are all uppercase in C (T/F)
- Stdio.h stands for _____
- Pointers are declared by using the _____
- Main () function should return zero or _____
- The _____ function is used to display the output on the screen.
- C is a general purpose high level language that was originally developed by _____

SECTION-B

Q2. Attempt any five questions.

5x6=30

- What is Flow Chart? And show some standard graphics that are used in flowchart
- What is an Array and pointer
- WAP to add two numbers
- Write a note on MATLAB and its uses
- What is keyword? Name the list of keywords used in C program
- What are advantages of C?
- Difference between Low Level Language and High level languages

SECTION-C

Q3. Attempt any three questions.

3x10=30

- Explain Steps in development of a program
- Explain structure of C program
- What do you mean by operators? Name all the types of operators and explain any two in detail
- Explain Compiler and Interpreter
- WAP to find out biggest number (if-else)

S.B. Roll No.....

COMPUTER PROGRAMMING USING 'C'
3rd Exam/Comp/IT/CSE/0625/Nov'19

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Do as directed.

15x1=15

- `==` is a _____ operator.
- Diamond in flowchart is used for _____.
- C language uses the _____ as a statement terminator.
- String is an array of _____.
- `%d` is used for _____.
- Structure is a collection of _____ elements.
- Pointer is declared by using _____.
- `++` is a unary operator (T/F)
- Break statement is used for terminating the case (T/F)
- C is a case sensitive language (T/F)
- Function always return a single value.(T/F) F
- `&&` is a _____ operator in c. logical
- Every C program statement in C must end with _____ Semicolon
- The type of all elements in an array must be _____ Same
- `\n` signifies _____ Next line

SECTION-B

Q2. Attempt any six questions.

6x5=30

- What do you mean by Flow Chart? Explain the various symbols used in Flow chart?
- Explain the structure of C program with suitable example?
- Explain various string manipulation functions used in C?
- Difference between Call by value and Call by reference.
- What do you mean by array? Explain different types of array.
- Explain pointer with example.
- WAP to find factorial of a number.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- Explain the various loops available in C language? Explain with syntax and example?
- What do you mean by operator? Explain various operator used in c language with example.
- What are the various data types used in C language?
- Explain various file operation function in C.

S.B. Roll No.....

COMPUTER PROGRAMMING USING "C"
3rd Exam/0295/ECE/IT/CSE/Nov'19
(FOR 2018 BATCH)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Do as directed.

15x1=15

- Define flowchart.
- Define algorithm.
- X=7; Y=X++; Y = _____.
- Getche () function is used for _____.
- Float datatype require _____ bytes of memory for their storage.
- C language is case sensitive.(T/F)_____.
- ASCII stands for _____.
- Pointer is used to store the _____ of a variable.
- Function which calls itself again and again is called _____.
- An array is a collection of _____.
- Character data type require 2 bytes of memory space.(T/F)_____.
- A structure is a method of grouping data of same data types. (T/F)_____.
- Full form of STDIO.H is _____.
- Binary operator operates on _____ operands.
- Loop within loop is called _____.

SECTION-B

Q2. Attempt any six questions.

6x5=30

- Explain structure of C program.
- Explain and differentiate between while and do while statements in 'C' language.
- Write a program to find whether a given number is even or odd.
- Write a short note on pointers with example.
- Differentiate between break and continue statement in C with example.
- Explain call by value and call by reference method of functions with examples?
- What is recursion? Write a program to find factorial of a number by using recursion.
- What is difference between structure and union? Explain with examples.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- What do you mean by data types? Explain various data types available in C language.
- Explain various flowchart symbols.
- Explain various operators in C language.
- Explain various control structures with examples.
- Explain various one dimensional and multi-dimensional arrays with examples.

S.B. Roll No.....

COMPUTER PROGRAMMING USING C
3rd Exam/Comp/IT/CS/0625/Sept'2020

Duration: 1.15 Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- a. What are different types of operators in C.?
- b. Explain the different between compiler and interpreter.
- c. Explain recursion with suitable example.
- d. Explain algorithm and flowchart with example.
- e. Explain the concept of structure with example.
- f. What are the different between the local and global variable.
- g. What is the different between call by value and call by reference?

SECTION- B

Q2. Attempt any one question.

1x10=10

- i. Explain the various input and output statement in C.
- ii. What are the different data types used in c. Explain with example.
- iii. Explain formatted and unformatted statement in c.
- iv. Explain the structure of c program.

S. B. Roll. No.....

COMPUTER PROGRAMMING USING C
3rd Exam/ECE/IT/CSE/0295/Jun'2021
(For 2018 Batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. Explain flowchart and all its symbols. Draw a flowchart to add two numbers.
- ii. Write down the difference between structure and union.
- iii. Write a program in c to swap two numbers.
- iv. Write a program in c to find area of circle.
- v. Explain if-else structure with example.
- vi. Write down difference between break and continue statements with the help of c program.
- vii. Explain arithmetic and logical operators in c.

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Write down difference between call by value and call by reference methods of parameter passing.
- b. Explain various types of data-types available in c.
- c. Explain various types of formatted and unformatted functions in c.
- d. How different types of arrays are created and initialized in c?

S. B. Roll. No.....

COMPUTER PROGRAMMING USING C
3rd Exam/COMP/IT/CSE/0625/Jun'2021

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. Draw a flowchart to find largest among three given numbers.
- ii. Differentiate between Structure and Union by giving example.
- iii. What are different types of Operators in C?
- iv. Differentiate between Call by Value and Call by Reference by giving example.
- v. Write a program in C to input a number and find whether it is even or odd.
- vi. Explain one dimensional and two dimensional arrays.
- vii. What is file? Explain various operations and function available for file in C language.

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Explain various loops available in C with syntax and example.
- b. Explain decision making with IF statement, IF-ELSE statement and NESTED-IF statement.
- c. Discuss the various storage classes available in C.
- d. Write a Program to multiply two matrices.

S.B. Roll. No.....

COMPUTER PROGRAMMING USING 'C'
3rd Exam/ECE/IT/CSE/0295/Jun'2022
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Do as directed.

15x1=15

- A _____ is used to separate the three parts of the loop expression in a 'for' loop.
- Every statement in C ends with _____
- A loop is completely enclosed with another loop is called _____
- Compiler Convert _____ language into machine language.
- The pictorial representation of an algorithm is _____
- Full form of CONIO is _____
- && is a _____ operator in C.
- '\n' signifies _____
- String is an array of _____
- clrscr () function is use to _____
- There is no difference between X++ and ++X. (T/F)
- An identifiers can start with underscore. (T/F)
- Break statement is used to terminate control from loop statement. (T/F)
- C-language is a middle level language. (T/F)
- Every C program must have main function. (T/F)

SECTION-B

Q2. Attempt any six questions.

6x5=30

- Write a program to find average of three numbers.
- Explain the difference between compiler and interpreter.
- Write a program in C to find if the given year is a leap year or not a leap year.
- Explain if-else statement with the help of example.
- What is the purpose of break statement in switch statement? Explain with an example.
- What is difference between compiler and interpreter?
- Differentiate between a flowchart and an algorithm with example.
- What is a structure? How is it different from union?
- Write a program to determine whether a given number is even or odd.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- What is a data type? Explain its types in 'C' language.
- Explain various Logical and relational operator in C with examples.
- Write a program to find the largest of three numbers.
- Write a program in C to find the factorial of a number.
- What do you mean by call by value and call by reference? Explain.
- What is a pointer? How a pointer is declared? Write advantages and disadvantages of pointers.