Pop sem questions

Principles of programming using C (Visvesvaraya Technological University)

SURYA Gold

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Module - 1

1) What is a computer?
   i) Give the characteristics of computer

2) Explain The Generation of computer and give the classifications of computer

3) With a neat diagram explain basic organization of computer.
   i) Applications of computer.

4) List & Explain Input & output devices
   ~~i) List & explain~~

5) Explain the characteristics of C & uses of C

6) Explain the structure of C with an example

7) Write a C program to perform arithmetic operation.

8) Explain the files used in C program

9) Explain the following
   i) Keyword ii) Identifier iii) comments
   iv) Data types v) constants

10) Explain how compilation & execution of C programming is done

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11) Explain input & output statements in C with syntax and example.

Module-2

1) List all the operators used in C. Explain the all the operators in C with an example

2) Briefly explain type conversation & type casting.

3) Explain the all conditional branching statement with syntax & example [if, if else, if else if, switch]

4) Explain the Iterative statement with Syntax & example [while, do while, for]

5) Explain the following
i) Break statement ii) continue
iii) go to statement

6) diff b/w while & do while

Module-3

1) Define function. Give the declaration of function (or) How do you declare the function with syntax & example.

2) Explain Parameter passing to the function i) call by value ii) call by reference.

3) Explain
i) Function definition
ii) Function call

4) Explain recursive function with example.

5) Explain the types of recursion

6) Explain the following with example
i) Scope of variables
ii) Storage classes
iii) written statement

7) Programs under recursion
i) Factorial
ii) Fibonacci series
iii) tower of hanoi
iv) GCD

8) Arrays
i) Define array & how do you declare & initialization array elements explain with syntax & example

9) Explain one dimensional array for inter-function communication

10) Explain operations that can be performed on arrays.

11) Explain syntax & example the declaration & initialization of two dimensional array

12) Explain operations that can be performed on 2 dimensional array

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Module-4

1) Define string & explain the function used for reading & writing the strings.

2) Explain string Taxanomy with diagram

3) write a C programming for the following string operations with in build and without inbuid functions
   i) String length
   ii) String concat
   iii) string compare
   iv) String append
   v) String reverse

4) Explain character manipulation function with example.

5) Pointers
   i) Define Pointers Give the declaration of Pointers with example

6) Explain the following with ex:-
   (a) Null Pointers (b) Generic Pointers

7) Explain how arguments are passed to the function using Pointers.

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Module - 5

1) Define structure. Give the declaration of structure & initialization of structure.
2) explain the following
   i) Type def
   ii) Nested structure
   iii) arrays of structure
3) Explain 3 ways how the function can access members of structure

4) Define union, Give the declaration & Initialization of union with syntax & example.

5) ~~How the union c~~
   Justify how the union can be useful when declared inside the structure.

6) Give the declaration & Initialization of enum data type.

7) Explain input & output operation on enum

8) What is file & explain the 3 standard streams in C.

9) Explain the types of file (2 types)
10) Explain the steps for using files in C

11) Explain the file modes in C

**12) Explain the functions used to read data from file

**13) Explain the functions used to write data from file with prototype & example

14) Explain the following
i) End of file [EOF]
ii) Close a file.

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