

8. a) Explain with suitable example initialization of one-dimensional array and two dimensional array.
- b) Explain any four string handling functions in 'C'. Write a C program to find if string is palindrome or not.

Unit - V

9. a) Explain with an example, how opening and closing of file is performed.
- b) Define Pointer. How to initialize pointer variable?
- c) Define a structure. Give its general syntax and explain with an example.
10. a) Write a program in C to exchange the values stored in two locations in the memory, using pointer.
- b) Write a note on Arrays of Structures.
- c) Discuss getc and putc functions with suitable example.

BT* Bloom's Taxonomy, L* Level

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First Semester B.E. (Credit System) Degree Examinations

15CS111 - COMPUTER CONCEPTS AND 'C' PROGRAMMING

Max. Marks: 100

Marks BT*

Marks BT*

2. a) List the different types of computers. Explain types of computers that are designed for use by organizations. 8 L1
- b) List different types of printers. Explain working of Dot matrix printer with a neat diagram. 6 L2
- c) Explain the various factors affecting the processing speed of a computer. 6 L2

1

- 4
8
8
- f. a) Differentiate between Keywords and Identifiers.
b) What are constants? Explain the different types of constants in C.
c) Evaluate the following expressions: $i=3, j=4, k=2$
(i) $i++ - j--$ (ii) $j+1 / i-1$ (iii) $j++ / i--$ (iv) $++k \% -j$

- Write a flow chart for if – else statement
- Design and develop a C program to find the given number is an armstrong number or not and print the suitable message
(Armstrong Number : $371 = 3^3 + 7^3 + 1^3 = 371$)
- Compute a program in C to find the given input character is a vowel or consonant. Also display the input character's ASCII value and print the suitable messages.

10 L

- Explain the different categories of functions with example for each.
- Design a C program using functions to perform linear search for a given integer in a single dimensional array of numbers and report success or failure in the form of a suitable message.
- Explain with an example, how do you pass array as a parameter to a function.