

## I B. Tech I Semester Supplementary Examinations, January - 2020 C PROGRAMMING

(Com. to all Branches)

Time: 3 hours Max. Marks: 75 Answer any **FIVE** Questions All Questions carry Equal Marks Describe procedure for creating and running C programs using algorithmic approach. (8M) 1. a) What is meant by Short Circuit Evaluation? List and Explain the execution of Short-Circuit b) (7M) operators in C programming. What are various decision making statements? Explain their relative merits and demerits (8M) 2. a) b) Discuss about various bitwise shifting operators with suitable examples. (7M) 3. a) Explain different looping statements with syntax and examples. (8M) b) Write a C Program to compare two strings for equality without using string handling (7M)function. What is a multi-dimensional array? How to declare it? How to access elements of multi-4. a) (8M) dimensional arrays? Write a program using pointers to compute the sum of all elements stored in an array. b) (7M) Give a recursive solution for Fibonacci series problem. (8M) 5. a) b) Write a C program to explain the lifetime and the scope of local and global variable. (7M) 6. a) How are increment and decrement operations implemented with pointers? (8M) b) Write a C program to swap two numbers using pointers. (7M) 7. What is bit field? Write a program to print the binary equivalent for a given number using bit (15M) fields. Discuss in details about various modes of operating a file. 8. a) (8M) b) Write a 'C' program to count the number of characters in a file. (7M)

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