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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, October/ November - 2020 COMPUTER PROGRAMMING AND DATA STRUCTURES

Time: 2hrs Max.Marks:75 Answer any five questions All questions carry equal marks 1.a) Demonstrate various arithmetic and relational operators available in C language. What is the significance of declaring a constant as unsigned? Explain various types of b) constants available in C. [7+8]What is the need of 'break', 'continue' and 'goto' statements in C? Illustrate with an 2.a) example C program. Illustrate the differences between 'while' and 'do-while' loops in C. b) [7+8]3.a) Explain with the help of a suitable example the use of pointers to functions. List and explain various string manipulation functions available in C. b) [7+8]What are self-referential structures? Explain briefly. 4.a) Illustrate the use of pointers to structures using a C program. b) [7+8]Discuss briefly about binary search with an example program in C. 5.a) Write a C program to sort list of integers using selection sort. b) [7+8]What are the symbols used in a flow chart for solving a problem? Give an example flow 6.a) chart for solving the factorial of a number. Describe various computing environments with neat diagrams. b) [7+8]7.aExplain various pre-processor commands available in C.

Describe all variants of selection statements with flow-chart, syntax and example C code.

Demonstrate call-by-value and call-by-reference methods with C program.

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Explain how a multidimensional array is created and implemented in C.