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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, June/July - 2018 COMPUTER PROGRAMMING

Time: 3hrs Max.Marks:60 Note: This question paper contains two parts A and B. Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions. PART - A  $5 \times 4 \text{ Marks} = 20$ 1.a) Discuss the concept of Type Conversion with an example. [4] Write the differences between while and do-while statements. b) [4] What is an array? Write down its applications. [4] c) d) Explain briefly about nested structures. [4] Explain briefly about ftell() and rewind() functions. [4] PART - B  $5 \times 8 \text{ Marks} = 40$ 2.a) Write down the advantages and disadvantages of structured programming. b) Explain the terms precedence and associativity in evaluating an expression. [4+4] 3.a) Mention various rules for naming a variable in C. Describe various computing environments with neat diagrams. b) [4+4]4. Explain briefly about selection statements in C with clear syntax and example. Write a C program to generate a sequence of prime numbers between given range. 5.a) Briefly explain various function parameter passing mechanisms. [4+4] b) Why is it necessary to give the size of an array in an array declaration? 6.a) Explain with an illustrative example program for declaring an array and accessing its b) elements. [4+4] Explain how a multidimensional array is defined in terms of a pointer to a 7. collection of contiguous arrays of lower dimensionality with an illustrative C program. 8. Explain the process of passing an entire structure to a function using a program. 9.a) Explain briefly about command line arguments. Discuss about various string I/O functions available in C. [4+4] b) 10. Describe the following I/O functions: a) fopen() b) fprintf() c) fscanf() [8]



11.a) Write a C program that copies the contents of a binary file of integers to a second file.

b) Write down the differences between text files and binary files.