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Code No: 09A1EC01

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD B. Tech I Year Examinations, May/June-2013 COMPUTER PROGRAMMIMG AND DATA STRUCTURES

(Common to all Branches)

Time: 3 hours

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Max. Marks: 75

80

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Answer any five questions All questions carry equal marks

- What are the major differences between a time-sharing and a client/server 1.a) environment?
 - Develop a flow chart to find the maximum number in a given list of numbers. b)
- 5250 2.a) Explain with syntax the for and while iterative control structures in C.
 - Explain with suitable examples the following statements in G b) i) break ii) continue
- Explain briefly the functions of a C Preprocessor. 3.a)

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- Develop a C Program for multiplying two matrices. b)
- Discuss with syntax the purpose of the malloc function in C. 4.a)
- Develop a C Program to determine if the given string is a Palindrome or not. A Palindrome is a message that reads same both forwards and backwards. Ex. for a Palindrome is madam.
- Discuss the differences between a structure and union in C with an example. 5.a)
- Develop a C program that reads two complex numbers, calls a function for b) adding these two complex numbers and displays the result. Represent the complex number using a structure in C.
- Distinguish between a text file and a binary file. 6.a)
 - Develop a C Program to count the number of blanks in a text file. The file name is supplied as a command-line argument.
- Develop a C Program for converting the given infix expression into postfix form 7.a)using a stack. Use an array to represent the stack.
 - Define Abstract data type. b)
- Develop a C Program for implementing Quick sort for sorting an array of integers 8. in ascending order.