R15 Code No: 121AF JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech I Year Examinations, August – 2018 COMPUTER PROGRAMMING (Common to CE, EEE, ME, ECE, CSE, EIE, IT, MCT, ETM, MMT, AE, AME, MIE, PTM, CEE, MSNT) Max. Marks: 75 Time: 3 hours Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART-A (25 Marks) [2] Define Type conversion and give an example. 1.a) [3] What is Operator Precedence in Expression Evaluation? b) [2] List the applications of arrays. c) [3] What are preprocessor commands? d) [2] Explain array of strings. e) [3] What is Pointer? Write down its applications. f) Write any two differences between structure and union. [2] g) [3] Explain file status functions. h) [2] What are the drawbacks of linear search? i) [3] List and explain the stack operations. j) PART-B (50 Marks) Explain the following operators: 2. a) Relational Operators b) Bitwise Operators c) Conditional Operator. OR Describe the procedure of creating and running a C program. 3.a) What is an Identifier? List the rules to declare and define an identifier. [5+5]b) What is meant by the scope of variables and explain the types of storage class in C?[10] 4. Write a C program to find the factorial of a given number using recursion. 5.a) What is an Array? Explain the representation and Indexing of Two-dimensional array. b) [5+5]

8	6.a) Explain briefly about the pointer arithmetic. b) Write a C program to reverse a string without using strrev() function. OR 7.a) Describe briefly about the pointers to pointers with example. b) Explain in detail about the String Input/output functions.						[5+5] [5+5]
2 8 F	8. 9.a) b)	Write a C probtained by explainin de	ogram to create a each student using etail about the Enu between text and	marks sheet for Structures. OR Imperated types.	students and cal	culate the avera	ge marks [10] [5+5]
	10. Explain Binary Search method with an example. OR						[10]
	11.	What is Que	ue? Describe Enqu	ieue and Dequeu	e operations of C)ueue.	[10]
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