AG		AG AG AG AG AG RIS	ì A
AG	Tim	A Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full questions. A WAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech I Year I Semester Examinations, May/June - 2019 PROGRAMMING FOR PROBLEM SOLVING (Common to CE, ME, ECE, EIE, MCT, MMT, AE, MIE, PTM) Max. Marks: 75 Max. Marks: 75 A 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.	}
AG (1.a) b) c)	Give a brief note on storage class. Give a note on unions. How can we determine whether a file is successfully opened or not using fopen() function? [2]	
AG.	d) e) f) g) h) i)	Give syntax to create a pointer to function. How binary search works? What is a flowchart? How it is different from an algorithm? Write the advantages and disadvantages of using pointers. Write a 'C' program to read a binary file and print it on console Write short notes on dynamic memory allocation. How linear search is different from binary search? [2] [3] [3]	
AG	4	AGAGART - BART - BAGAGAG (50 Marks)	À
	2.a) b)	Explain typical steps for entering, compiling and executing 'C' programs. Write an algorithm to find the roots of a quadratic equation considering all cases. [5+5]	
46	3.a) / b)	OR Distinguish between all loop statements along with a flowchart and with an example program. Write a program in 'C' to check whether a given integer number is odd or even. [5+5]	
·	4.a) b)	Give a brief note on Enumeration data type. Write a 'C' program to find the biggest number and smallest number of given 'n' numbers using arrays. [5+5]	
AG	5.a) ^ b)	Why structures are necessary? Explain Nested Structures with a valid example. Give a detailed note on pointer expressions.	A
	6.a) b)	Explain Steps for file operations and different modes of files. Explain about preprocessor commands define, undef. OR [5+5]	
AG	7.	Write a program to read a text file, convert all the lowercase characters into upper case and re-write the uppercase characters in the file	A

What is Recursion? Write a 'C' Program for Towers of Hanoi. Also specify in diagram 8. for it. OR How to pass the structure to functions as an argument? Explain with a suitable example. 9.a) Explain about Allocating memory for arrays of different data types. Give a brief note on insertion sort with an example. 10.a) [5+5]Discuss the time complexity of the bubble sort. b) Write a program in 'C' to print list of integers in ascending order using bubble sort and 11. selection sort techniques. ---ooOoo---