R16

Code No: 131AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech I Year I Semester Examinations, March/April - 2023 COMPUTER PROGRAMMING IN C

(Common to CE, ME, MCT, MMT, AE, MIE, MSNT) Time: 3 Hours Max. Marks: 75 Note: i) Question paper consists of Part A, Part B. ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions. iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions. PART - A **(25 Marks)** Convert the given decimal number to binary format: 236 1.a) [2] Give an example for number system conversion from hexadecimal to decimal number b) [3] What are standard functions? [2] c) What are limitations of recursion? d) [3] Which function is used to access a particular character in a string? e) [2] What do you mean by dangling pointers? f) [3] What are nested structures? [2] g) What is enumerated type? h) [3] i) What do you mean by a binary file? [2] What are the various modes a file can be opened in i) [3] PART - B (50 Marks) 2. Write a C program to perform logical and bitwise operations on the given data. [10] 3.a) Write a program to find greatest of four numbers. Distinguish between while and do-while statements. b) What are various storage classes in C language? Explain them. 4. 5. Write a C program to add, subtract and multiply two matrices based on the operator that has been given as input. Use switch statement. [10] 6. List and explain string manipulation functions. [10] Explain memory allocation functions. Illustrate with an example. 7. [10]

8.	Write a C program for illustrating passing structures through pointers.	[10]
9.a)	OR Distinguish between structure and union.	
b)	Write a C program illustrating array of structures concept.	[5+5]
10.	List and explain file status functions. Give examples.	[10]
	OR	
11.	Write a € program to count number of characters in a given file. ooOoo	
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