

R13

Code No: 811AC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, July/August - 2021 **COMPUTER PROGRAMMING**

Time: 3 Hours Max.Marks:60

Answer any five questions All questions carry equal marks

1.a) b)	What is a data type? List various data types in C and write about their sizes in byt Enumerate all the operators in C with appropriate examples.	es. [6+6]
2.a)	Evaluate the following expression in C with the values A=5, B=20, C=1: $A + (B*C/D) - A + C*D$	5, D=10
b)	Write a C program to find biggest of given three numbers.	[6+6]
3.a) b)	Demonstrate all the decision making statements in C with examples. Write a C program to find the sum of 20 natural numbers.	[5+7]
4.a) b)	Differentiate between call by value and call by reference in C. Write a C program to generate Fibonacci series using recursive functions.	[6+6]
5.a) b)	How to define and declare multi-dimensional arrays? Give an example. Write a C program for multiplication of two matrices.	[5+7]
6.a) b)	Define a pointer. What are the advantages of pointers than arrays? Discuss about malloc() and calloc() memory allocation functions with examples.	suitable [6+6]
7.a) b)	Demonstrate self-referential structures in C with suitable examples. Explain about enumerated data types in detail.	[7+5]
8.a) b)	Write syntax and examples for fopen(), fclose() andfflush() functions. Write syntax and examples for positioning functions in C.	[7+5]

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