

R17

Code No: 841AC

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

Time: 3 Hours Max.Marks:75

Answer any five questions All questions carry equal marks

1.a)	What is a data type? List various data types in C and write about their sizes in byt	
b)	Enumerate all the operators in C with appropriate examples.	[6+9]
2.a)	Evaluate the following expression in C with the values A=5, B=20, C=15, D=10 A + (B*C / D) - A + C * D	
b)	Write a C program to find biggest of given three numbers.	[7+8]
3.a)	Demonstrate all the decision making statements in C with examples.	
b)	Write a C program to find the sum of 20 natural numbers.	[9+6]
4.a)	Differentiate between call by value and call by reference in C.	
b)	Write a C program to generate Fibonacci series using recursive functions.	[7+8]
5.a)	How to define and declare multi-dimensional arrays? Give an example.	
b)	Write a C program for multiplication of two matrices.	[6+9]
6.a)	Define a pointer. What are the advantages of pointers than arrays?	
b)	Discuss about malloc() and calloc() memory allocation functions with examples.	suitable [8+7]
7.a)	Demonstrate self-referential structures in C with suitable examples.	
b)	Explain about enumerated data types in detail.	[9+6]
8.a)	Write syntax and examples for fopen(), fclose() andfflush() functions.	
b)	Write syntax and examples for positioning functions in C.	[9+6]
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