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Code No: 821AC

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
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1.a) What is a data type? List various data types in C and write about their sizes in bytes.
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 suitable examples. [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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