

R20**Code No: 871AB****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA I Semester Examinations, July/August - 2021****C AND DATA STRUCTURES****Time: 3 Hours****Max.Marks:75**

Answer any five questions
All questions carry equal marks

- 1.a) Write about different operators supported in C language with example.
b) What is Type casting? Explain about various type conversions allowed in C language. [7+8]
- 2.a) Explain the significance of 'break' and 'continue' statement with suitable program.
b) Write 'C' program to print the Fibonacci sequence upto given number using while loop. [7+8]
- 3.a) Define two-dimensional array. Write a C program for addition of two matrices.
b) Discuss about pointers to pointers with suitable C program. [7+8]
- 4.a) How to pass a structure to a function? Explain with a C program.
b) Write a C program to copy the contents of one file to another. [7+8]
- 5.a) Write a C program to sort given elements using insertion sort: 20, 5, 39, 16, 65, 40.
b) Write about the procedure for insert and delete operations using Queue. [7+8]
- 6.a) What are the benefits of flowchart? Draw a flow chart to find given number is even or odd number.
b) Discuss about different types of computer languages in detail. [8+7]
- 7.a) Write about storage classes in 'C' with examples.
b) What is user-defined function? Explain about actual and formal parameters. [8+7]
- 8.a) Differentiate between Structures and Unions with examples.
b) Explain various string handling functions with syntax and examples. [7+8]

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