

Code No: 152AF**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech I Year II Semester Examinations, September/October - 2021****PROGRAMMING FOR PROBLEM SOLVING****(Common to EEE, CSE, IT, CSIT, ITE, CE(SE), CSE(CS), CSE(DS), CSE(Networks))****Time: 3 Hours****Max. Marks: 75**

**Answer any five questions
All questions carry equal marks**

1. Explain about various logical operators available in C language with examples. [15]
- 2.a) What are the steps involved in program development process? Explain.
b) Write program to check whether the given integer is palindrome or not. [8+7]
- 3.a) Explain the following string handling functions with examples:
i) strcpy() ii) strcat()
b) Write the differences between structure and union with examples. [8+7]
- 4.a) Explain the following functions in file operations:
i) getw() ii) putw()
b) Write a C program to copy the content of one file into another file. [8+7]
5. What are the different ways of passing parameters to the function? Explain. [15]
6. Write a C program to perform the operation of addition of two matrices. [15]
7. Explain in detail about preprocessor commands. [15]
8. Write an algorithm for linear search and explain with an illustration. [15]

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