NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA THEORY EXAMINATION

ROLL	NO	
NULL	INU.	

Date of the Examination: 10-03-2021	Programme:B.Tech
Semester1st	Subject: Basics of Programming
Course NoCSIR-11	Maximum Marks50
Number of Questions to be attempted06	Time allowed2 Hours
Total No. of Questions06	Total No. of Pages used2

Instructions: 1. All questions are compulsory.

2. Marks for every part of question are indicated against it.

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Q1.	(A)Explain the functioning of each unit of computer with the help of block diagram.	5
	(B)What are variables in C language? Write rules for naming any identifier.	3
Q2.	(A)Differentiate between break and continue statement with suitable example of each.	5
	(B) Write a program that compares two given dates. To store a date use a structure that contains three members namely date, month and year. If dates are equal than display the message "EQUAL" otherwise "UNEQUAL".	5
Q3.	(A) Can relational operations be performed on a string? Explain.	2
	(B) What is the null character and what it is used for, in the context of the strings?	2
	(C)WAP to remove all the characters of a string except alphabets.	3
Q4.	(A)What are various bitwise operators available in C? How are they different from logical operators?	2
	(B) Find and store transpose of a non-square matrix (i) into a new matrix, (ii) into itself without using any extra array/matrix. Display the result as row-wise matrix.	6

Q5.	(A)Write a modular program to find sum of 2 matrices. Matrices could be non-square and orders should be read in main. Make separate functions for (i) reading a matrix (ii) adding two matrices (iii) displaying a matrix	
	(B)Write a program to print following pattern:	
	1 1 1 1 1 2 1 1 3 1 1 1 1 1 1 1 1 1 1 1	5
Q6.	(A) Write a program to generate fibonacci series upto n (i.e. given number) using while loop as well as do- while loop.	4