Guru Nanak Dev Engineering College, Ludhiana						
Department of Applied Sciences						
Program	B.Tech.CSE, IT	Semester	1			
Subject Code	ESE-104	Subject Title	Programming for Problem			
			Solving			
Test	2	Course Coordinator(s)	Ranjodh Kaur, Siddharth			
			Jain, Gagneet Kaur, Kapil			
			Sharma, Jaswant Singh, Sita			
			Rani, Kuljit Kaur			
Max. Marks	24	Time Duration	1 hour 30 minutes			
Date of Test	16 th October,	Roll Number				
	2023					

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Note:	Attempt all questions. All	assumptions must l	be clearly stated.		
Q. No.	Question				
Q1	Briefly illustrate semantic and logical errors with the help of examples.				2
Q2	What will be the output fint main () { int i=1,j=1; int a = 0; int y; int x = 11; char c: y = sizeof(x++); printf("%i %i %i", y, double d = 10.5; printf(" %lu", sizeof(a + for(i=1;i<=3;i++) { if(++i ==2 j==2) { continue; } printf(" %d",i); printf(" %d",j); if(++i==4 j==3)	For the following cools: ='A'; x,sizeof(c)); d));			2
Q3	Define flowchart. Construct a flowchart and write an algorithm to find how many times the digit D appears in the number N .				4
Q4 Q5	Create a user-defined fur	action to find the squ	by reference with the help of a uare of any positive integer nug and return type concepts.		4
Q6	Develop a menu driven c If 'A' is entered, number entered b If 'B' is entered, kilograms to pour kilogram is equal If any other 'char message.	ode that does the four user-defined function user is palindrom user-defined functionally value to be contacted to 2.204 pounds).	on 'isPalindrome' must be ab	e to convert he keyboard. (One with a suitable	8