		Guru Nanak Dev E	ngineering College, Ludhian	a						
rogram		Departmen	t of Applied Sciences							
		EE)	Semester	2	2					
Subject Code		ESC-104	SSC-104 Subject Title		Programming for problem solving					
Mid Semester Test (MST) No.		2	Course Coordinator(s)	Er.Goldendeep Kaur Er.Kuljit Kaur, Er.Jaswant Singh Er.Ranjodh Kaur Er.Sidharth Jain						
Max. Mari	ks	24	Time Duration	1 hour 30 minutes						
Date of MST		29 <sup>th</sup> May, 2023	Roll Number	1 now 50 mmarcs						
	mpt all questions									
Q. No.		Quest	ion		COs, RBT Marl					
Q1	Define function. Als	o list the four predefi	ned functions.		CO5, L2	2				
Q2	Explain null pointer	CO6,L5	2							
Q3	Illustrate bubble sor	CO7, L3	4							
Q4	Outline the concept number using recurs	CO4,L2	4							
Q5	Differentiate between example.	CO5, L4	4							
Q6	Demonstrate structure. Create a structure named library having following components (title, author-name, book-id, book-price). Make at least three entries into it.									
Course O	outcomes (CO)									
Students V	will be able to									
3,000	To formulate simple	e algorithm for arithm	netic and logical problems							
- 0	To translate the algorithms to program(in c languages)									
2	To test and execute the programs and correct syntax and logical errors									
3	To implement conditional branching, iteration and recursion.									
4	To decompose a pr	To decompose a problem into function and synthesize a complete program using divide and conquer								
5					ng uivide and	conquer				
6	To use array, point	er and structure to for	mulate algorithms and prog	rams						
-7	To apply programming to solve matrix addition and multiplication problems and searching and sorting									
8	To apply programming to solve simple numerical method problems, namely rot finding of function, differentiation of function and simple integration.									

RBT	Lower Order Thinking Levels (LOTS)			Higher Order Thinking Levels (HOTS)			
Name	LI	L2	L3	L4	L5	L6	
rvaine	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	