TE/VI/COMP/C-Scheme/DEC-2024/03-12-2024

			(3 Hours)	Total Marks: 80
N.B:	(2) A (3) I	Attemp Figures	on No. 1 is compulsory. ot any three questions out of the remaining five questions, so to the right indicate full marks. uitable assumptions wherever necessary.	G.C. EXAM & EXAM & FARJAT, RAS
Q	.1.	A. B. C. D.	Compare Application Software and System Software. Construct operator precedence Parser for the grammar: E→E+E E*E a. Parse the string "a+a*a" using the same parser. Explain forward reference concept with example. Explain the functions of a Loader.	5 5 5
Q	.2.	A. B.	Explain with flowchart design of two pass assembler. Construct Three address code for the following program i= 1; x = 0; while (i <= n) { x = x + 1;	10 10
Q	.3.	A. B.	Explain Direct Linking Loader in Detail. Design LL(1) parsing table for the given grammar: S →iCtSE a E→eS ε C → b Also state that whether the given grammar is LL(1) or not.	10 10
Q	.4.	A. B.	Explain the working of a Single-pass macro processor with flowchart. Explain with suitable example code optimization techniques.	neat 10 10
	.6.	A. B. A.	Explain different issues in code generation phase of compile Explain DAG with suitable example. Explain the different phases of a compiler with suitable example	com
		В.	Explain advanced macro facilities with suitable examples.	10