	Pı	rinted Decree 2		D. H. S.					
(ii)		rinted Pages: 3		Roll No					
	Q	uestions : 7	Su	b. Code:	6	1	9	ľ	
			Exa	m. Code:	0	9	0	4	
		B.Engg.	1st Year	(1st Semester)					
			(2122						
	P	ROGRAMMINO	G FOR H	PROBLEM S	OLV	ING	7		
		(Commo	n With C	SE, IT, ECE,)					
		Pa	aper—ES	C-X01					
Tir	ne Al	llowed : Three Ho	ours]	[Maxim	ıum	Mar	ks:	50	
No	te :	 Attempt five que which is compute each unit. 							
1.	(a)	Write down the sof 10 elements.	syntax to o	lynamically cre	eate a	ı floa	at arr	ay	
	(b)	Define the role	of linker	and loader.	· ·				
	(c)	What is the utili	ity of con	nmand-line-arg	ume	nts ?	•		
	(d)	Explain the imp	licit and e	explicit type co	onve	rsion	l. "		
	(e)	How unions are	different	from structure	s ?	5	×2=	10	
			UNIT—	-I					
2.	(a)	State with an exa	_		and	lifeti		of 5	
	(b)	Write a program	in C to	print the first	nt	erms	s of	a	

Fibonacci series.

[Turn over

- 3. (a) Why memory is important in computer system? Explain RAM and ROM memories.
 - (b) Explain step-by-step mechanism to sort the following list of numbers using bubble sort :

23, 45, 31, 28, 55, 49

5

- 4. (a) Discuss different types of errors encountered in a C program. In which situations switch statement is to be used? Explain precedence and associativity of operators.

 2+2+2
 - (b) Explain the user-defined data types. Discuss the in-built string handling functions. 2+2

UNIT—II

- 5. (a) How structures are more important than arrays? Create a structure of an employee to include sufficient components and then implement it.
 - (b) Explain the concept of recursion in functions. 5
- 6. (a) Why parameter passing is important in functions? How call by value is different from call by reference?
 - (b) Write a note on enumerations.

- 7. Write short notes on the following:
 - (a) Applications of pointers
 - (b) Pointer arithmetic.
 - (c) Macros.
 - (d) EOF ()

 $2.5 \times 4 = 10$