Bachelor of Science (B.Sc. I.T.) Semester–I Examination PROGRAMMING METHODOLOGY IN "C"

Paper-II

Time: Three Hours]			[Maximum Marks : 50	
N.B	ß. :—	- (1) All questions are compulsory and carry equal marks.		
		(2) Illustrate your answer with suitable diagrams wherever necessary.		
	EIT	THER		
1.	(a)	What is flowchart? Explain any four characteristics of flowchart.	5	
	(b)	Write an algorithm to find all prime numbers between 1 to 100.	5	
	OR			
	(c)	Explain iteration programming structure with suitable example.	5	
	(d)	Draw a flowchart to find factorial of a given number.	5	
	EIT	THER		
2.	(a)	Explain different primary data types in C with example of each one.	5	
	(b)	Explain switch statement with suitable example.	5	
	OR	OR		
	(c)	What do you mean by entry control and exit control loop? Differentiate b	etween while and	
		do-while loop.	5	
		Write a program to print Fibonacci series: 1 1 2 3 5 up to n terms	. 5	
		THER		
3.	(a)	What is an Array? Explain declaration and initialization of single and two dim	_	
	<i>a</i> .	suitable examples.	5	
		Write a program to illustrate function with arguments and no return value.	5	
	OR		_	
	(c)	Write a program to find largest number in given array of N elements.	5	
	(d)	Explain "Recursive Function" with suitable example.	5	
		THER	_	
4.	(a)	Explain Command Line Arguments with example.	5	
		Define pointer. Explain pointer arithmetic with example.	5	
	OR			
	(c)	What is difference between structure and union? Explain with suitable exam	_	
	(d)	Explain fprintf() and fscanf() with example.	5	
5.	(a)	What is pseudo code? Explain.	2½	
	(b)	Write purpose and syntax of if-else construct.	2½	
	(c)	Explain "Default Arguments" in function.	2½	
	(d)	Explain "Nesting of structures".	21/2	