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

Paper—II

Time: Three Hours] [Maxim			s: 50
N.B		(1) All questions are compulsory and carry equal marks.(2) Draw neat and labelled diagrams wherever necessary.	
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1.	(a)	What is algorithm? Discuss its characteristics. Write an algorithm to find if a given num	iber is
		positive, negative or zero.	5
		Explain iterative programming structure in detail with example.	5
	OR		
	(c)	What is Pseudo code? Explain its use.	5
	(d)	Draw a flowchart to find whether the given no. is even or odd.	5
		HER	
2.	(a)	Write a program to find the sum of digits of a number.	5
		Define Identifier. What are the rules for declaring an identifier ?	5
	OR		
	(c)	Explain use of break and continue statement in looping statement with example.	5
	(d)	What do you mean by exit control loop? Which loop is exit control loop in C programm	_
		Explain example.	5
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3.	(a)	What is the need of array? Write a program to search an element in a given array elements.	of 50 5
	(b)	What is recursive function? Explain with example.	5
	OR		
	(c)	Write a program to insert an element in one dimentional array.	5
	(d)	What is function? Explain call by reference with example.	5
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4.	(a)	Discuss structure and union. Explain memory allocation of structure and union.	5
	(b)	What is pointer? Explain pointer to pointer with example.	5
	OR		
	(c)	What are the different file modes in which files can be opened ?	5
	(d)	Explain the following functions:	
		(i) fseek()	
		(ii) fget()	
		(iii) ftell()	
		(iv) fwrite()	
		(v) rewind()	5
5.	Atte	Attempt all:	
	(a)	Explain sequence logic with example.	$2\frac{1}{2}$
	(b)	Explain the use of sizeof() operator.	$2\frac{1}{2}$
	(c)	What are the data types supported by C?	$2\frac{1}{2}$
	(d)	What do you mean by default argument?	$2\frac{1}{2}$