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

Paper—II

Time: Three Hours]			Iaximum Marks: 50	
	N.B	.:— (1) All questions are compulsory and carry equal marks. (2) Draw neat and labelled diagrams wherever necessary.		
	EIT	HER		
1.	(a)	What is programming structures? Explain selection and modular programming structure.	5	
	(b)	What is algorithm? Write an algorithm to find the largest of three numbers.	5	
	OR			
	(c)	What are the advantages of writing an algorithm ?	5	
	(d)	Draw a flow chart to find whether the given number is positive or negative or zero.	5	
	EIT	HER		
2.	(a)	What is operator? Explain relational and logical operators in brief.	5	
	(b)	Explain nesting of IF statements. Explain with example.	5	
	OR			
	(c)	Write a program to find the roots of a quadratic equation.	5	
	(d)	What do you mean by branching statements? Explain elseif ladder with syntax and exa	-	
			5	
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3.	(a)	What is array? Write a program to find maximum element of an array.	5	
			5	
	OR		_	
	(c)	Write a program to calculate factorial of given no. using recursive function.	5	
	(d)	Explain the following string functions:		
		(i) strlen ()		
		(ii) stremp ()		
		(iii) strcpy () (iv) strcat ()		
		(iv) strcat () (v) strrev ().	5	
	FIT	HER	3	
4.	(a) What is structure? Give its memory allocation. How they are accessed in program? Write			
	(u)	structure for following fields of items:	***1160	
		item_no, itemname, itemquantity and itemprice.	5	
	(b)	What is the use of pointer? Explain void pointer with example.	5	
	OR	The is no do of points of points with company		
	(c)	How we can open and close a file ? What are modes of operating data file in C-progr	am ?	
	` /		5	
	(d)	Differentiate between structure and union. Give example of structure and union.	5	
5.	Atte	empt ALL:		
	(a)	What is Pseudo Code ?	21/2	
	(b)	What are relational operators supported by C?	21/2	
	(c)	How we can initialize 2D array ?	21/2	
	(d)	List storage classes. Explain any one.	21/2	