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## Bachelor of Science (B.Sc.) Semester-I (C.B.S.) Examination COMPUTER SCIENCE (PROGRAMMING IN "C")

## Compulsory Paper—1

Time	e : 7	Three Hours [Maximum Marks :	: 50
N.B.	· :—	(1) ALL questions are compulsory and carry equal marks.	
		(2) Illustrate your answers with suitable diagrams wherever necessary.	
	EIT	HER	
1.	(A)	Explain with example modular programming structure.	5
	(B)	Write an algorithm and draw a flow chart to find out smallest of three numbers.	5
	OR		
	(C)	What is flow charting? Explain different symbols used in flow charting.	5
	(D)	Write an algorithm and draw a flow chart to display Fibonacci series upto Nth term.	5
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2.	(A)	What is looping? Explain in detail "for" and "while" loop.	5
	(B)	Explain different data types supported by C-language.	5
	OR		
	(C)	Explain switch statement with suitable example.	5
	(D)	Write a program in C to find sum of even and odd numbers out of n inputted number	ers.
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3.	(A)	What is an Array ? Explain one dimensional Array with a suitable example.	5
		What is user defined function? Explain components of function.	5
	OR		
	(C)	What is recursion? Write a program to find out factorial of a number using recursion	
	(D)		5
	(D)	What are string functions? Write notes on:	
		(i) stremp ( )	_
	DIT.	(ii) streat ( )	5
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4.	` ′	What is union? Explain it with suitable example.	5
		Explain various file modes for opening a file.	5
	OR	What is maintain and address amountain 9 White mote on maintain vanishle	5
		What is pointer and address operator? Write note on pointer variable.	5 abla
	(D)	State syntax and purpose of fopen() and fclose(). Illustrate their use giving suit example.	.abie 5
5.	Atte	mpt ALL:	3
J.		List various programming development tools. Define any one.	2½
		Give syntax of break and continue statement. State their purpose and use.	2½
	` ′	What is default argument? Explain with suitable example.	$\frac{21}{2}$
		Give syntax and example of structure.	21/2
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