D 9506		Pages 2)	Name	
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FIRST SEM	ESTER B.Sc. DEGR	EE EXAMINATION,	NOVEMBER 2010	
	,	(CCSS)		
	Computer S	cience—Core Course		
CSIB 01-	COMPUTER FUNDAM		RAMMING IN 'C'	
Time : Three Hours			Maximum: 30 Weightage	
I. Answer the fol	llowing :—			
1 The	— operator is used to lin	k related expressions toge	ether.	
2 Consider	the statements:			
float x;	$\sin a = 20, b = 10;$			
x = (a >	(b)?b:a;			
	uld be the value stored in			
3 What will	be the value of sum after	executing the following p	rogram segment :	
sum :	= 0;			
for (int $i =$	$\frac{1}{3}$, $i < 20$; $i++$)			
(if(i% $4 = 0$) continue;			
	sum+=i;			
)	A			
· ·		vitch statement can alway	ays be replaced by a series of	
	statements.	: £		
5 What wil	be the value of x printed	п		

function compares two strings given as its arguments.

(c) static int value [] = {1, 2, 3, 4}; (d) None of the above.

(b) int matrix [10, 20];

printf("%d", x);

(a) static value [10];

7 Which of the following statement is correct?

8 By default, a function return ——— type value.

(Pages 2)

Name.....

_	operator tell us the size of a given variable.	
9	Consider the declaration int arr [100]; then arr+10 is equivalent to	 .
10	Consider the declaration int all [100], declaration to the start of	a file.
11	takes a file pointer and resets the position to the start of	
12	region.	$(12 \times \frac{1}{4} = 3 \text{ weightage})$

II. Answer all questions :—

- 13 What is a truth table?
- 14 Draw a flow chart to find the factorial of a number.
- 15 With suitable example, explain break statement.
- Write a program to read four digit integer and print the sum of its first and third digits [from left]. For example, if n = 2457, then sum = 2 + 5 = 7.
- 17 What is a global variable?
- 18 Explain the difference between call by value and call by reference.
- 19 Give suitable examples illustrating the two approaches to access structure members.
- 20 List and explain functions to fill images.
- 21 With suitable example, explain "#define" statement.

 $(9 \times 1 = 9 \text{ weightage})$

III. Answer any five questions:

- 22 Discuss precedence of arithmetic, relational and logical operators.
- 23 With suitable example, explain nesting of for loops.
- 24 Write a program to find the largest and second largest numbers from a list of n numbers.
- 25 Write a recursive function to find sum of first n natural numbers.
- 26 Write note on union.
- 27 Write a program to add two matrices. Use pointers to access array elements.
- 28 With suitable example, explain command line arguments.

 $(5 \times 2 = 10 \text{ weightage})$

IV. Answer any two questions:

- 29 Write a program for searching a name in a list of n names. Include appropriate messages.
- 30 Give a detailed discussion on data files.
- 31 Write a program to create a structure with name, number and age of a student. Using the structure, write a program to read and print details of n students.

 $(2 \times 4 = 8 \text{ weightage})$