	BCSF 3101(Old)
Total number of printed pages – 2	B. Tech
Registration No.:	

Special Examination - 2012

PROGRAMMING IN C

Full Marks - 70

Time: 3 Hours

Answer Question No. **1** which is compulsory and any **five** from the rest.

The figures in the right-hand margin indicate marks.

1. Answer the following questions:

2×10

- (a) Does it possible write into read only memory? Answer with proper justification.
- (b) Write how 109.328 is represented in computers.
- (c) Differentiate between linker and loader
- (d) Write the syntax and use of a temas operator.
- (e) Mention the different ways to declare a constant.
- (f) What is the difference between a character array and a string? Does it possible to use a character array as a string?
- (g) Define recursion with a suitable example.
- (h) Mention the different situations when it is required for passing parameters as reference.
- (i) Express a two dimensional array as pointers.
- (j) Explain the following function declaration:int (*f)(char *s[]);

2.	(a)	Exp	lain basic concepts of computer organizations with a neat sketch	. 5	
	(b)	Answer the followings:			
		(i)	Multiply 110101 and 1001	2	
		(ii)	Divide 1001101 by 1101	2	
		(iii)	Mention the conditions for underflow	1	
3.	(a)	Drav	w a flow chart to check whether a number is a palindrome or not.	. 5	
	(b)	Outline the important characteristics a structured program. 5			
4.	(a)	Writ	e a program in C o generate first 100 prime numbers.	5	
	(b)	Sup	pose an array contains n real numbers, where n is an input var	riable.	
		Writ	e a program to sort this array in descending order.	5	
5.	(a)	Writ	e a program to multiply two input matrices.	5	
	(b)	Writ	e a program that inputs a multiword string and displays the num	ber of	
		wor	ds in it without using any library functions.	5	
6.	(a)	Writ	e a function that inputs an array and incitive greatest element store	ed in it.	
				5	
	(b)	Mer	ntion the important storage classes in C. Give a suitable example for	each.	
				5	
7.	(a)	Writ	te a program using structure that will read and display the follow	owing	
		deta	ails of ten books Book Name, Author, Cost	5	
	(b)	Writ	te a program to reverse a string using pointers.	5	
8.	Writ	e sho	ort notes on any two from the following :	5×2	
	(a)	Dyn	amic memory allocation		
	(b)	File	management		
	(c)	Neg	ative number representation		