Registration No. :										
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Total number of printed pages – 2

B. Tech

**BCSE 3101** 

## First Year Special Examination – 2014 PROGRAMMING IN 'C'

BRANCH(S): EEE, ELECTRICAL, ETC, MECH

**QUESTION CODE: G 575** 

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.

CEN

Answer the following questions:

2×10

- (a) Define relational operator.
- (b) What is an interpreter?
- (c) Define keyword, constant and variable.
- (d) What do you mean by ternary operator?
- (e) Write the differentiate between expression and statement.
- (f) Define local and global variable.
- (g) What are the difference between algorithm and flowchart.
- (h) Distinguish between unary and binary operator.
- (i) Define type casting.
- (j) What is the typedef declaration?
- 2. (a) Discuss the structure of a C program. Explain with example.

5

(b) What do you mean by data types? Give examples of data types available in C language.

3.	(a)	Write a program in C language to find out the sum of first n natural number	rs
		using do while loop.	5
	(b)	Write the advantage and disadvantage of for loop over while loop.	5
4.	(a)	Write a program C to reverse the digits of a number without using libra function.	ry 5
	(b)	Write a program in C to generate and print prime numbers less than 100	.5
5. (a	(a)	Write a function in C to convert binary number to its corresponding oct	al
		number.	5
	(b)	Write a program to find the transpose of a matrix.	5
6.	(a)	What is recursion? Write a program to find factorial of a number usin recursion.	ng 5
	(b)	What are command line arguments?	5
7.	Cre	ate a structure named complex to model a complex number and write	а
	prog	gram to add two complex numbers using this.	10
8.	Writ	te short notes any <b>two</b> of the following:	2
	(a)	processor families	
	(b)	Evolution of computers	
	(c)	Storage Classes	
	(d)	passing parameters by reference.	