B. Tech Degree I & II Semester (Combined) Examination June 2006

IT/CS/EC/CE/ME/SE/EB/EI/EE/MRE 109 COMPUTER FUNDAMENTALS

(2000 Admissions Onwards)

Time:	3Hours	Maximum Marks	: 100
I.	(a) (b)	Explain briefly about the secondary storage devices in a computers system. What are the differences between machine language, assembly language and high	(10)
		level language?	(10)
II.		Write short notes on the following:	
		(i) Operating system (ii) Compilers and assemblers (iii) LAN (iv) Internet	(20)
III.	(a) (b)	What are constants in C language? Explain different types o constants with examples. Write program to convert a decimal number to binary number, provide flow chart	(10)
•		and sample output. OR	(10)
IV.	(a)	Explain the following functions with examples.	
- • •	(4)	(i) getchar() (ii) putchar()	(5)
	(b)	Explain the different looping statements.	(5)
	(c)	Write a program to calculate the roots of a quadratic equatio 1, provide flowchart and sample output.	(10)
V .	(a)	What are function prototypes? What are their functions?	(4)
	(b)	Explain different parameter passing mechanisms.	(6)
	(c)	Write a program to locate a particular string in a sentence, provide flowchart and sample output.	(10)
VI.	(a)	Write a program that includes a recursive function to determine the value of the	
¥ 1.	(a)	nth Fibonacci number F_n where $F_{n-1} + F_{n-2}$ and $F_1 = F_2 = 1$.	(12)
i	(b)	What are library files? What is the importance of it?	(8)
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VII.	(a)	Write a program to read two tables of integers and calculate the sum of the	
	()	corresponding elements.	(12)
	(b)	Explain the importance of pointers in c language. OR	(8)
VIII.	(a)	Program to sort a list of strings alphabetically using a two dimensional character array.	(12)
	(b)	Structures - Definition, Example Specialty	(8)
ĭX.	(a)	Relational, network and hierarchical models (3 x 5	=15)
	(b)	Explain what is relational algebra.	(5)
	•	OR ,	
Χ.	(a)		2 = 8)
	(b)	SQL – Definition Important SQL commands	(3) (9)
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