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B. Tech. Ist Semester (Main) Examination Feb.- 2010 Computer Programming and IT (Common to all Branches of Engineering)

1E1024

Time: 3 Hours Maximum Marks: 80

Min. Passing Marks: 24

Instructions to Candidates:

Attempt overall **Five** questions selecting one question from each unit. All questions carry **equal** marks.

Unit - I

1. a) Define block diagram of computer system. (4)

b) Explain various types of memory in detail. (4)

c) Explain low level, assembly and concept of High level programming languages briefly. (8)

OR

a) Explain briefly about compiler, assembler and interpreter. (8)

b) Make a flowchart to find maximum number among 3 numbers. (8)

Unit - II

2. a) Convert the following:-

 $(4 \times 2 = 8)$

- i) (276.65)₈ to Decimal
- ii) (1101110.1010)₂ to Octal
- iii) (FB9.EC)₁₆ to Octal
- iv) $(725.36)_8$ to Binary
- b) Write short notes on BCD, ASCIT and EBC.DIC codes.

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(1)

[Contd....

(8)

OR

	a)	Subtract 259 ₁₀ from 798 ₁₀ using, (r-1)'s complement method.	
	b)	Subtract 1110101 ₂ from 10001010 ₂ .	(4)
	c)	what is bit in computer technology? How many different patter are possible with	
		i) 6 bits	
		ii) 8 bits.	
		Unit - III	
3.	a)	Explain structure of program in C language briefly.	(8)
	b)	Write a program that given (Inputted) number is prime or not.	(8)
		OR	
	a)	Write a program to generate the following pattern.	(8)
	* * *	* * * * * * * *	
		* * * * * *	
		* * * *	
		* * *	
		*	

	b)	Write a program to generate following pattern.	(8)
		1 .	
		2 3 2	
		3 4 5 4 3	
		4 5 6 7 6 5 4	
	•	567898765	

Unit - IV

4.	a)	What is array? What are the advantages of array? Write a program maximum value from n values in array.	to find (8)
	b)	What is pointer? Discuss advantages of pointer.	(8)
		OR	
	a)	Explain call by value and call by address.	(8)
	b)	Write some records of employee like name, address, age & salary in Read that records from file again and display.	a file. (8)
		Unit - V	AC
5.	a)	Define storage class in user define function.	(8)
	b)	Write a program of reverse of a number using function.	(8)
		OR	
		ite a program that a number (i.e. 153) is Amstrong number of not using ined function return value.	g user