

SEM 2-3 (RC 07-08)

F.E. (Semester – II) (Revised Course 2007-08) Examination, Nov./Dec. 2012 INFORMATION TECHNOLOGY

Duration: 3 Hours Total Marks: 100

Instructions: i) Attempt any 5 questions, with at least one question from each Module.

ii) Make suitable assumptions, if required.

MODULE-I

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1	. a)	Explain different characteristics of computer monitor.	6			
	b)	What is an operating system? Describe its functions.	6			
	c)	What are optical disks? Explain different types of optical disks.				
2	a)	Explain the working of Email, with diagram.	6			
	b)	all many by contracting.				
	c)					
	d)	What is the purpose of following LINUX commands?				
		i) touch ii) cat	200 10 141			
		iii) who iv) chmod				
		MODULE-II (E. "D &") Hring				
3.	a)	Briefly describe any 4 database models.				
	b)	Define algorithm and flowchart. Write an algorithm and draw flowchart to				
		exchange values of 2 variables.	8			
	c)	What is compiler? How it is different from interpreter?				
4.	a)	Describe different types of high level languages.	8			
	b) Write an algorithm to generate Fibonacci series.		5			
	c)	Explain language interface and storage management with respect to DBMS. 4				
		What is the function of an assembler?	3			
		P.T	.0.			

MODULE - III

5. a) List and explain basic data types used in C.

7

b) A C program contains the following declarations and initial assignments:

float
$$x = 0.005$$
;

Determine the value of each of the following expressions:

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i) 2 * ((i/5) + (4 * (j-3)) % (i + j-2))
                                                                                .3
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iii)
$$!(x > 0)$$

c) Write a C program to find sum of digits of a number and to reverse the number. 7 o). What are optical dista? Explain different types of optical disks

- 6. a) Identify the errors in the following C programs:
 - i) # include < stdio.h > Main() float a: int r! = 4;

a = 1.5 * * r * 2; printf (" % c", a);

ii) # include < stdio.h> b) Define algorithm and flowchart. Write an algorithm and draw fl() niam

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charu; v;
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int w; u = a;

V = b;

w = a + b:

printf ("%d ", w);

	b)	b) Write a C program using switch case statement to do the	following:	8
		When user enters $0 \rightarrow \text{find factorial of a number.}$		
		When user enters 1 \rightarrow check whether number is even or	odd.	
	c)	c) Describe the syntax of following control loops:		8
		i) for loop ii) do-while loop		
		MODULE-IV		
7.	a)	a) Describe the elements of C functions. What are the advant functions?	tages of using	7
	b)	b) What is 2-D array? Write a C program to find transpose of	of a matrix.	7
	c)	c) Differentiate between actual and formal arguments with an	example.	6
8.	a)	a) With the help of example, explain i) Call by value		8
		ii) Call by reference.		
	b)	b) Write a C program to read numeric data from keyboard an	d write it to file.	8
	c)	c) Explain the following file input/output operations :		4
		i) fopen() ii) fclose()		
		iii) getc() iv) fseek()		