

F.E. (Semester – II) (Revised in 2007-08) Examination, May/June 2014 INFORMATION TECHNOLOGY

Duration: 3 Hours Total Marks: 100

Instructions: 1) Attempt any five questions, with at least one question from each Module.

2) Make suitable assumptions, if required.

MODULE-I

1.	a) Explain different input devices with example.	6
	b) Describe the characteristics of monitor.	5
	c) Describe ring topology with diagram.	6
	d) Distinguish between DRAM and SRAM.	3
2.	a) Describe the working of e-mail with a diagram.	10
	b) Explain the peer to peer and client server architecture.	6
	c) What is domain name and IP address?	4
	MODULE – II	
3.	a) Explain database models.	7
	b) Describe steps involved in compilation with diagram.	7
	c) Differentiate between assembly level language and high level language.	6
4.	a) Describe the characteristics of data in a database.	8
	b) What are the benefits of using database management system?	4
	c) Write an algorithm and draw a flowchart to find factorial of a number.	8
	MODULE - III	
5.	a) What is meant by operator precedence and associativity.	8
	Using hierarchy of operators evaluate the following expression:	
	int a = 16, b = 6, c = 2 $(x(tsoll), Taken)$ into	
	i) (a^b) ~a ii) (a>>c)*b/c%a	



6

6

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b) Write a 'C' program to compute the sum of following series:
     2-4+6-8+10....(-1)n-1(2n)
   c) Distinguish between "while" and "do while loop" with the help of example.
6. a) Give the output of the following C program:
       i) #include<stdio.h>
             void main()
            int x=0,y=0,z;
            z=10;
            do{
                X=Z--;
                y=--Z;
               }while(z>0);
            printf("x=\%d,y=\%d,z=\%d",x,y,z);
       ii) #include<stdio.h>
         void main()
            int x=0;
            while(x=0)
        printf("x is equal to zero");
            }
          }
       iii) #include<stdio.h>
          void main()
          {
            int x;
            float y = 1.0;
             x=(y>1.0)?2.50:3.5;
            printf("%f",(float)x);
             getch();
          }
```



	b)	Write a C program to generate the following pattern using "for" loop:	8
		44 333	
		2222	
		11111	
	c)	Explain the syntax of the following using examples:	6
		i) scanf	
		ii) printf	
		iii) switch.	
		MODULE-IV	
7.	a)	Write a C program to find largest and smallest element in an array of integer elements.	7
	b)	State and explain the elements of a function.	6
	c)	What is recursion? Write a C program to find the factorial of a number using recursion.	7
8.	a)	Write a C program to copy the contents of file1.txt to file2.txt.	8
	b)	Differentiate between the following string handling function using examples.	4
		i) strcat v/s strncat	
		ii) strcpy v/s strncpy.	
	c)	Explain different modes of a file.	2
		Write a C program to find the length of the string without using string	6
	ha	andling function.	6