6/12/14 Repeat (M)



SEM 2 - 3 (RC 07-08)

F.E. (Semester – II) Examination, Nov./Dec. 2014 INFORMATION TECHNOLOGY (Revised in 2007-2008)

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)	Describe the characteristics of monitor.	7
	b)	What is Domain name and IP address?	5
	c)	Write short notes on:	
		i) Magnetic tapes	
		ii) Floppy disk.	8
2.	a)	Describe the working of e-mail with a diagram.	10
	b)	Explain different functions of Operating System.	4
	c)	Explain the peer to peer and client server architecture.	6
		MODULE – II	
3.	a)	Explain some of the service provided by DBMS.	6
	b)	Explain different network topology with the help of a neat diagram.	8
	c)	Describe steps involved in compilation with diagram.	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 exchange values of two variables.	. 8



MODULE-III

5. a) Differentiate between "for" and "while" loop with the help of an example.	6
b	Write a 'C' program to compute the following series :	8
	$1 - x + x^2/2 - x^3/6 + x^4/24 + \dots + (-1)^n x^n/n!$	
	Where n and x is to be accepted by the user?	
С	A C program has following declaration and initial assignment.	6
	int a = 60, b = 13, c = 19	
	Determine the value of the following expression :	
	i) a&b	
	ii) a^b	
	iii) a/b*c+(b+c)/c.	
6. a) Give the output of the following c program :	6
	i) #include <stdio.h></stdio.h>	
	void main()	
	Explain director unaligns of Operating Section.	
	int $x = 5$; signed $a = 5$; unsigned $b = 5$;	
	if $(x = 6)$	
	printf ("x equals 6\n");	
	else margeth haan e to gen en increasing and statement marette plates a	

printf ("x equals 5\n");

printf ("EQUAL");

printf ("UNEQUAL");

if (a==b)

else



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ii) #include <stdio.h>
       void main()
       to as nutrative
       printf("%d",printf("BestOfLuck"))
   iii) #include <stdio.h>
      void main()
        int x = 10; y = 25;
        X = Y++ + X++;
        y = ++y + ++x;
        printf ("%d%d\n",x,y);
b) Point out the error in the following program and write the correct program :
    i) #include <stdio.h>
      void main()
       printf ("enter the value of x\n");
        scanf ("%d", x);
        while (x>0)'
   ii) #include <stdio.h>
      void main()
          for (y = .1; y! = 1.0; y + = .1);
          printf ("%f\n",y);
c) Write a C program to generate the following pattern using "for" loop.
                                                                                   8
   BC
   DEF
   GHIJ
d) Compare the use of break and continue statement in C language.
                                                                                   2
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MODULE-IV

7.	a)	Write a C program to enter the marks (in IT subject) of 'n' student in an array and then calculate the average marks of the class by passing the value to a function by calling the function by value.	7
	b)	What are the advantages of using functions in C programming?	2
	c)	Write a C program to find multiplication of 2 matrix of order N*N.	8
	d)	Explain the function of following string operator:	3
		i) streat ii) strlen	
		iii) strncpy. Ioenco and ethiw bins murpore, grawpalet and a rare entitied to	
8.	a)	Write a C program to accept a string, reverse it and check whether the string is palindrome, without using string handling function.	8
	b)	Explain the following function with respect to files using examples : i) rewind	6
		ii) ftell	
		iii) fscanf.	
	c)	Write a C program to read data from keyboard and write it to a file.	6