



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.

Determine the value of the folio I-3JUDOM

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 meanong a prawoil of ent to sugrue ent evilo (
		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
		unsigned b = 5; \tag{8} II - 3JUDOM	
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
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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?

6

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c) A C program has following declaration and initial assignment.
```

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

```
6. a) Give the output of the following c program:
```

```
i) #include <stdio.h>
  void main()
{
```

int x = 5; signed a = 5;

unsigned b = 5;

if (x = 6)

printf ("x equals 6\n");

else

printf ("x equals 5\n");

if (a==b)

printf ("EQUAL");

else

printf ("UNEQUAL");



GHIJ

```
ii) #include <stdio.h>
      void main()
         printf("%d",printf("BestOfLuck"))
  iii) #include <stdio.h>
      void main()
       int x = 10; y = 25;
       X = Y++ + X++;
       V = ++V + ++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()
        int x;
        printf ("enter the value of x\n");
        scanf ("%d", x);
        while (x>0)'
        X--;
    ii) #include <stdio.h>
       void main()
          float y;
          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
```

d) Compare the use of break and continue statement in C language.



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.					
	d)	Explain the function of following string operator: i) strcat ii) strlen	3				
		iii) strncpy. The effect of the bas memory passed at each accompany (d					
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				
8	b)	Explain the following function with respect to files using examples: i) rewind ii) ftell iii) fscanf.	6				
	c)	Write a C program to read data from keyboard and write it to a file.	6				