[Total No. of Questions: 8]

F.E. (Semester - II) (RC) Examination, Nov. - 2011 INFORMATION TECHNOLOGY

(Revised in 2007 - 08)

Dura	tion	n: 3 Hours Total Mark:	100
Instr	ucti	ions: 1) Answer any five questions with at least one question from each module. 2) Assume necessary data. 3) Diagrams in pencil only.	
		MODULE - I	
Q1)	a)	Explain the mechanism of a floppy disk and provide a suitable diagram to su the answer.	
	b)	Explain the working of a CPU and memory with the help of a diagram.	[5]
	c)	Explain the characteristics of a monitor.	[6]
	d)	Distinguish between DRAM and SRAM.	[6] [3]
Q2)	a)	Give the use of the following DOS commands. i) Dir. ii) Mkdir.	[2]
	b)	What is operating system? List the functions of operating system.	[4]
	c)	Write a note on the following network architecture.	[8]
		i) Peer to peer architecture. ii) Client/server architecture.	[~]
	d)	Write a short note on the following:	(90
		i) Spamming. ii) Web browser. iii) VRL.	[6]
		A A	
		b) Point out the ever in the follo II - AJUGOM and correct it.	
Q3)	a)	ward 1 W	[Q]
	b)	Write an alerithm and draw a flowchart to reverse a number.	[8]
	c)	Distinguish b ween a compiler and an interpreter.	[8] [4]
Q4)	a)	scant (% d . a);	[ד]
(4)	b)	che types of high level languages.	[6]
	c)	conditacteristics of data present in a database	[8]
	<i>\(\)</i>	Write an algorithm a draw a flow chart to find the summation of n natural numb	ers.
			[6]

MODULE - III

```
a List and explain the basic datatypes used in C.
 05)
                                                                                    [6]
        Distinguish between ++i and i++.
                                                                                    [2]
      ) Give the output of the following programs.
                                                                                    [4]
      i) main()
      Answer any five questions with at least one question from each module.
                   int x = 3, y = 4, z = 1,
                   x + = y;
                   y -= x;
                   z * = x:
 (I) a) Explain the mechanism of a floppy; (x, y, z); which is made and in Explain to support
         b) Explain the working of a CPU and memory with the help of (a) hism m (ii
                   int x, y;
                   x = 128;
                   y = 32;
                   x = x >> 1;
                   y = y < < 2;
                printf ("x = % d and y = % d, x, y); moleye printf go at lad W
     d) Write a C program to generate the prime number series (1 2 3 5 ..... n terms) [8]
         Write a C program to generate the following pattern.
Q6)
                                                                                   [8]
     a)
              B
                   C
                                 C
                                      B
                        D
                            D
              B
                   C
         A
                                 C
                                      B
                                           A
              B
         A
                                      B
                                           A
         A
     b) Point out the ever in the following program and correct it.
                                                                                   [3]
         MS? What are the services provided by DBMS() niam bioV
              int a, i;
              scanf (" % d"; a);
              rent types of high level language; 6.9.9 \times 1.00
              print ("i = \% d / n", i);
         Write a menu driven program to implement a calcul.
                                                                                  [6]
```

[8]

d) With the help of an example, explain what is the use of goto statement. [3] **MODULE - IV** Distinguish between local and global variables with the help of an example. Q7)[4] What is recursion? Write a recursive function to find the factorial of a number. [6] Write a C Program to search for the desired element in an array of integers. [6] What is an array? Give the different ways of initialization of 1 - D array. [4] Write a program to read data from keyboard until '\n' is encountered. Write this Q8)data to a file called "input.txt". Again read the same file and display the contents of the file on the screen. [8] b) Explain the different modes of a file. [2] c) Explain the following string handling function. [2] Strenip () ii) Str cat ()

XXXX

string handling functions.

d) Write a C program to copy the content of string S1 to string S2 without using the