

## F.E. (Semester – II) (RC 2007-08) Examination, Nov./Dec. 2018 INFORMATION TECHNOLOGY

Duration: 3 Hours Max. Marks: 100

**Instruction**: Answer **any five** questions by selecting at least **one** question from **each** module.

## MODULE - I

1.	a)	Explain the mechanism of a floppy disk and provide a suitable diagram to support the answer.	5
	b)	Explain the working of a CPU and memory with the help of diagram.	6
	c)	Explain the characteristics of a monitor.	6
	d)	Distinguish between DRAM and SRAM.	3
2.	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  i) Peer to peer architecture.  ii) Client/server architecture.	8
	d)	Write a short note on the following:  i) Spamming  ii) Web browser  iii) URL.	6
		MODULE – II	
3.	a)	What is DBMS? What are the series provided by DBMS.	8
	b)	Write an algorithm and draw a flowchart to reverse a number.	8
	c)	Distinguish between a compiler and an interpreter.	4
		A B A	





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b) Point out the error in the following program and correct it
                                                                                        5
      void main ()
        int a, i;
        scan f (" % d ", a);
        i = = a > 5?2?3:
        print (" i = \% d/n", i);
   c) Write a menu driven program to implement a calculator.
                                                                                        5
   d) With the help of an example, explain what is the use of goto statement.
                                                                                        5
                                    MODULE - IV
7. a) Distinguish between local and global variables with the help of an
                                                                                        4
      example.
   b) What is recursion? Write a recursive function to find the factorial of a
                                                                                        6
      number.
   c) Write a C program to search for the desired element in an array of integers.
                                                                                        6
   d) What is an array? Give the different ways of initialization of 1-D array.
                                                                                        4
8. a) Write a program to read data from keyboard until '\n' is encountered. Write
      this data to a file called "input.txt". Again read the same file and display the
      contents of the file on the screen.
                                                                                        8
                                                                                        2
   b) Explain the different modes of a file.
   c) Explain the following string handling function:
        i) strcmp ()
                                                                                        2
        ii) strcat ().
   d) Write a C program to copy the content of string S<sub>1</sub> to string S<sub>2</sub> without
      using the string handling functions.
                                                                                        8
```