SEM 2-3 (RC 07-08)

F.E. (Semester – II) Examination, May/June 2013 INFORMATION TECHNOLOGY (RC 2007-08)

Duratio	n : 3 Hours	Total Marks: 10	0
8	Instructions: i) Answer 5 questions with atleast one Module. ii) Assume necessary data.	question from each	
c) Trace the following C programs Included the output:			
🧀 a)	What are input devices? Explain any 2 input devices.		6
b)	Explain the following: i) RAM		6
	ii) ROM a the little ann C of (Syfamoum & (S. Sim) y lig/(base))		
	iii) Flash Memory.		
c)		nce between peer to	8
2. a)	a) What is an operating system? Explain any 2 functions of operating system.		
b)	Write a note on world wide web.		6
c)	What is spamming?		4
d)	Explain the following LINUX commands:		3
	i) touch		
	ii) cat iii) who.		
4	MODULE - II		
3. a)	Explain the generations of languages.	b) What is the difference	6
b)	Differentiate between low level and high level language.	c) White a C program	6
g c)	What is database? Explain any 4 database models.		8

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- 4: a) State and explain the characteristics of data present in a database. b) What is flowchart? What are various notations used in flow chart? c) Provide an algorithm and flow chart to find sum of digits of a number. 8 MODULE - III 5. a) What do you mean by identifier in C? Specify the rules for identifier. Give example. b) Provide the syntax for switch statement. Illustrate with an example. 8 c) Trace the following C programs and obtain the output: i) void main () { int m; for (m = 1; m < 5; m++)printf ("%d \n", (m%2) ? m : m * 2); Brefly describe Natwork Architecture, 'Allust is the difference() nism biove(ii to $\{ \text{ int } m = 50, n = 0;$ What is an operating system? Explain any 2 function (0 = 0) alidw system { if (n<10) break; m = m - 10;printf ("%d \n", m);
- 6. a) Determine the hierarchy of operations and evaluate the following expression : x = 3/2 * 4 + 3/7 + 6
 - b) What is the difference between break and continue statement? Give example.
 - c) Write a C program to compute exponential series : vol neewed attached to

$$e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + ... + \frac{x^n}{n!}$$

8



MODULE-IV

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7. a) Describe the elements of C function, with an example.
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   b) Explain the following concepts with respect to C functions:
       i) Call by value
      ii) Call by reference.
   c) Explain the following string manipulation functions:
       i) Strcat
      ii) Strcpy
      iii) Strlen
      iv) Strcmp
8. a) What is an array? Write a C program to find transpose of a matrix.
  b) Trace the following C program and obtain the output
     #include <stdio.h>
      void main()
         int a[5] = \{5, 1, 15, 20, 25\};
        int i, j, m;
   i = + + a[1];
          j = a[1] + +;
           m = a[i + +];
           printf ("%d %d %d", i, j, m);
  c) A file named INPUT contains a series of integer numbers. Write a program to
     read these numbers and write all odd numbers to a file called ODD.
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