



SEM 2-3 (RC 07-08)

F.E. (Semester – II) (Revised in 2007-08) Examination, May/June 2015 INFORMATION TECHNOLOGY – II

Duration: 3 Hours Total Marks: 100

Instructions: 1) Attempt any five questions, with atleast one question from each Module.

2) Make suitable assumption, if required.

MODULE-I

1.	a)	What are optical disks? Explain different types of optical disks.	8
	b)	Write short notes on the following input devices:	8
		i) Keyboard ii) Mouse iii) Mouse	
	c)	List the functions of an operating system.	4
2.	a)	Briefly describe : URL, WWW, Web Browsers.	6
	b)	Describe some salient features of DOS and Windows OS.	6
	c)	Explain the working of CPU and memory with the help of a diagram.	6
	d)	What is spamming?	2
		MODULE – II	
3	. a)	Write an algorithm and draw a flowchart to exchange values of two variables.	6
	b)	With the help of a neat diagram explain the steps involved in compilation.	6
	c)	Describe the characteristics of data in a database.	8
4	. a)	Write an algorithm and draw a flowchart to find the summation of n natural numbers.	8
	b)	How is a compiler different from an interpreter?	3
	C)	Differentiate between high level and low level languages.	6
	d) What is database and DBMS?	3



4

MODULE-III

- 5. a) Write a C program using do..while loop to accept a character from the user and print the corresponding ASCII value. 5 b) Explain the basic structure of C Program with example. 6 c) Explain the following with example: a) Enumerated data type b) Ternary operator. d) Evaluate the following expressions: 3 a) Given p = 5, q = 6, R = p + + + + +q. What is the value of R? b) Given a = 4, b = 3, evaluate c = a and b. What is the value of c? 6. a) What do you mean by identifier in C? Specify the rules for identifier. Give example. 5 b) Write a C Program to evaluate the series $1 + x + x^2 + x^3 + ... + x^n$. 7 c) Trace the output of the following programs: a) #include<stdio.h> #include<conio.h> void main() float f = 0.13: printf("%8.2e",f); getch(); b) #include<stdio.h> #include<conjo.h> int main() int i = -3, j = 2, k = 0, m; m = ++i && ++i && ++k;printf("%d, %d, %d, %d\n", i, j, k,m); getch(); return 0; 4
 - d) What is meant by operator precedence and associativity? Give example.



MODULE-IV

7.	a)	Provide an example to explain nesting of function.	3
	b)	Write C Program to find largest element of an array.	5
	c)	What is recursion? Write a C Program to calculate the power of a number using recursion.	6
	d)	Differentiate between call by value and call by reference. Give example.	6
8.	a)	Write a short note on :	6
		a) Automatic variables.	
		b) Static variables.	
	b)	Write a C Program that accepts two integer arrays and finds the sum of the corresponding elements of these arrays.	5
	c)	Write a C Program to read name and roll number of N number of students from user and store them in a file.	7
	d)	Explain the following string manipulation functions:	2
		i) strcat	
		ii) strcmp.	