Som- II (M) Repaid 6/12/13

SEM 2-3 (RC 07-08)

F.E. (Semester – II) (Revised in 2007-08) Examination, Nov./Dec. 2013 INFORMATION TECHNOLOGY – II

Duration: 3 Hours of maigon O a en W. Inemetata to the total Marks: 100

Instructions: i) Answer 5 questions with at least one question from each Module.

ii) Assume necessary data. pniwottot ni arome ent tuo tnio 9 (o

MODULE-I

1.	a)	Briefly explain the following terms; with respect to computer:		
		i) Word length		
		ii) Speed		
		iii) Storage		
		iv) Accuracy		
		v) Versatility		
		vi) Diligence.		
	b)	With the help of diagram, explain the various parts of a computers.	7	
	c)	What is domain name and IP address? Give examples.	7	
2.	a)	Explain virtual storage as a function of an operating system.		
		With the help of diagram, explain Ring topology. List its advantages and disadvantages.		
	c)	Describe the working of e-mail, with diagram.		
		b) Write a C program to check if the II aludoMed is palindrome using do while		
3.	a)	What is DBMS? Explain any 1 database model.		
	b) State and explain the characteristics of data present in a database.			
	c)	Describe the steps involved in compilation process with diagram.	8	
4.	a)	Differentiate between low level language and high level language.	4	
	b)	Provide an algorithm and flow chart to exchange the values of 2 variables.	8	
	c)	Write an algorithm and draw a flow chart to find sum of the series ads (VI) $1^2 + 2^2 + 3^2 + + n^2$.	8	
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5. a) Explain the primary data types used in C.

6

b) Provide the syntax for 'for statement'. Write a C program to compute

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

c) Point out the errors in following C programmes:

6

i) Void main ()

if
$$a > = 400$$

$$b = 300$$

$$c = 200$$

Printf ("%d %d", a, b, c);

}

ii) Void Main ()

(int
$$i = 10$$
, $j = 20$; maxis evid ? saddless ? One example and let $i = 10$, $j = 20$; maxis evid ? Saddless ?

if
$$(i = 25)$$
 && if $(j = 10)$

}

6. a) Explain 'goto statement' with an example.

7 c) Describe the working of e-mail

b) Write a C program to check if the number entered is palindrome using do_while loop.

7

c) State the purpose of following mathematical functions:

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- i) to upper (c) to this seesong notestigmos in beviovni seests entrechased to
- ii) to lower (c) not level doin but apparent to val worms what attempted to
- b) Provide an algorithm and flow chart to exchange the values of (x) roolf (iii
- c). Write an algorithm and draw a flow chart to find sum of the set (x) ada (vi
- v) pow (x, y)
- vi) sqrt (x).



MODULE-IV

7. a) What is function in C? Write a C program to generate Fibonacci series using function. 8 b) What is the difference between formal and actual arguments? 6 c) Why arrays are used? 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\nn, i, j, m); 8. a) Write a C program to find trace of a matrix. 8 b) Explain the following string manipulation functions: 4 i) strcat ii) strcmp iii) strcpy iv) strlen. c) Write a C program to open a file called STUD-INFO and store following data in it: 8

Roll No.	Name	Branch	
1	Jai	IT IT	
2	Rashmi	COMP	
3	Meena	ETC	