LINA -II (2006 Course) : SUMMER - 2016

Subject : Computer Algorithm & Problem Solving

Day: Monday Date: 13/06/2			
N.B.	: 1)	Attempt ANY FIVE questions from Section – I and ANY TWO from	
	2)	Section – II. Figures to the right indicate FULL marks. Answers to both the sections should be written in the SAME answer book.	
SECTION - I			
Q. 1		Define algorithm. Explain characteristics of an algorithm.	(10)
Q. 2		What is flowchart? Explain the advantages and disadvantages of flowchart.	(10)
Q. 3		Write an algorithm and draw flowchart to find the sum of first 100 odd numbers.	(10)
Q. 4		What are loops? Explain while loop and do-while loop with example.	(10)
Q. 5		Define array. Explain various operations that can be performed on an array.	(10)
Q. 6		What is a decision table? Explain the structure of decision table.	(10)
Q. 7		Write short notes on the following:	(10)
	a)	Operators	
	b)	Subroutine	
SECTION - II			
Q. 8		Write an algorithm and draw flowchart to sort the elements of an array in ascending order.	(15)
Q. 9		Write an algorithm and draw flowchart to calculate net salary of an employee where basic salary is inputted by the user (Calculate DA = 20% of basic salary, HRA = 15% of basic salary, PF = 10% of basic salary)	(15)
Q.10		Write an algorithm to print multiplication tables from 1 to 5. Also draw flowchart for the same.	(15)

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