LINA -II (2006 Course) : WINTER - 2016

Subject : Computer Algorithm & Problem Solving

Day : Saturday Date : 17/12/2016			
N.B.	1) 2) 3)	Solve any FIVE questions From Section – I. and any TWO questions From Section – II. Figures to the right indicate FULL marks. Answers to both the sections should be written in the SAME answer book.	n
		SECTION - I	
Q.1		Write an algorithm and draw flowchart to calculate gross sales. If the sale is above 5000 then 2% discount, for more than 8000, 3% discount is given and above 10000, 5% discount will be given.	(10)
Q.2		What are arrays? State different types of arrays.	(10)
Q.3		Explain the term algorithm. State its advantages and disadvantages.	(10)
Q.4	a)	Explain the following terms:	(04)
	b)	i) Constant ii) Variables What are different types of operators?	(06)
Q.5		Write an algorithm and draw flowchart to display the table of accepted number from the user. (eg. Input No. $= 2$)	(10)
Q.6		Write an algorithm to transfer the contents of one array to another array.	(10)
Q.7	a) b) c)	Write short notes on (ANY TWO) Concept of Loop Top Down Design Subroutine	(10)
		SECTION – II	
Q.8		Write an algorithm to display the given string in reverse order. Draw flow chart for same.	(15)
Q.9		In a payroll system, the dearness allowance depends upon basic pay of the employee. D. A. is calculated as Basic * D.A. rate Salary Range Applied DA $3500 <= Basic > 0$ DA = Basic * 2.4 $6000 <= Basic > 3500$ DA = Basic * 2.10 $7150 <= Basic > 6000$ DA = Basic * 1.90 Basic > 7150 DA = Basic * 1.7 Draw Decision Table for the above case.	(15)
Q.10		Write an algorithm to sort the numbers using any sorting method. Accept the numbers from the user.	(15)

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