Subject : Algorithm and Program Design

Day : Friday
Date : 03/06/2016

S.D.E. |||||||||||||||||||||||||
30128

Time : 10.00 AM TO 1.00 PM
Max Marks : 80   Total Pages : 1

N. B. :
1)   Attempt **ANY FIVE** questions from **Section -I** and **ANY TWO** questions from **Section-II.**
2)   Answers to both the sections should be written in the **SAME** answer book.
2)   Figures to the right indicate **FULL** marks.

SECTION-I

Q.1	How algorithm is represented through pseudo code and flow chart?	**(10)**
Q.2	**a)** Explain different control structures with example.	**(05)**
	b) Write an algorithm to accept any number and display sum of digit of that number.	**(05)**
Q.3	What is an Array? Explain array manipulation with suitable example.	**(10)**
Q.4	**a)** Write an algorithm to find factorial of accepted number.	**(05)**
	b) Write an algorithm to display accepted number is prime or not.	**(05)**
Q.5	Describe in detail benefits of structured programming and procedure oriented programming.	**(10)**
Q.6	Explain procedure for array manipulation such as removing the duplicates.	**(10)**
Q.7	Discuss the following concept with example.	**(10)**
	i) call by value	
	ii) call by reference	

SECTION-II

Q.8	Explain insertion sort with suitable example.	**(15)**
Q.9	Write an algorithm to find n^{th} term of Fibonacci sequence.	**(15)**
Q.10	Write an algorithm to find minimum and maximum number from array of 50 numbers.	**(15)**

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