Subject : Algorithm and Program Design

Day : Wednesday
Date : 07/12/2016

S.D.E. |||||||||||||||||||||||
33258

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 attempt **ANY TWO** questions from Section – II.
2) Answers to both the sections should be written in the **SAME** answer book.
3) Figures to the right indicate **FULL** marks.

SECTION – I

Q.1 What is pseudo code? Explain algorithm representation through pseudo code. **[10]**

Q.2 Write an algorithm to accept any 50 numbers and display maximum and minimum number from it. **[10]**

Q.3 Write sequential steps to find 10 terms of Fibonacci sequence. **[10]**

Q.4 Explain in detail benefits of structured programing and procedure oriented programming. **[10]**

Q.5 Describe with suitable example various control structures available in C language. **[10]**

Q.6 Write a C program to accept any number and display reverse of that number. (Ex. 1234 = 4321). **[10]**

Q.7 Write short notes on **ANY TWO** of the following: **[10]**

a) Pointers

b) Bubble sort

c) Base conversion

SECTION – II

Q.8 Write a procedure for Insertion sort with appropriate example. **[15]**

Q.9 Explain concept of merge. Write a procedure to merge two lists with suitable example. **[15]**

Q.10 Write a program to accept any 10 numbers and display them in descending order. **[15]**

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