YENISI - I: WINTER - 2016

Subject : Elementary Algorithmics

Day: Monday Time: 10.00 A.M. TO 1.00 P.M. S.D.E. Max Marks: 80 Total Pages: 1 Date: 05/12/2016 N.B.: 1) Attempt any FIVE questions from Section –I and any TWO questions from Section-II. 2) Figures to the right indicate FULL marks. 3) Answers to both the sections should be written in **SAME** answer book. SECTION -I **Q.1** Explain rules to draw flow chart. (10)Q.2Write an algorithm to find factorial of given integer. (10)Q.3 Discuss the relationship among recursive and iterative algorithms with (10) appropriate example. Define array. Write an algorithm for partitioning an array. **Q.4** (10)Explain different iterative controls available in procedure oriented (10) **Q.5** programming. **Q.6** Discuss different performance measures of program. (10)**Q.7** Write short notes on Any **TWO**: (10)a) Characteristics of algorithm Memory allocation for 2-D array b) c) Algorithm verification. **SECTION-II Q.8** Given a list of n integers. Write an algorithm and flowchart to search a given (15) number in a list. Trace the same to search 75 in the following list. 25, 38, 75, 98, 120, 135, 142, 160. **Q.9** Write an algorithm to accept n integers and do following operations. (15)Find sum of integers find largest and smallest integer among a list Count even and odd numbers Write an algorithm to sort given list of integers in ascending order using (15) Q.10selection sort.