## YENISI - IV: SUMMER - 2016

## Subject : I. T. - Elective-II a) Programming with STL

Day: Thursday Time: 02.00 P.M. TO 05.00 P.M. S.D.E. Max Marks: 80 Total Pages: 1 Date: 09/06/2016 N.B.: 1) Answer all questions in the **SAME** answer book. 2) Answer any **FOUR** questions from **SECTION-**I. 3) Answer any TWO questions from SECTION-II. Figures to the right indicate FULL marks. 4) **SECTION-I** 0.1. List different iterator categories. Explain bidirectional iterator in brief. (12)What is adapter? Illustrate the deque adapter. Q.2. (12)Q.3. Compare associative container with sequential container. Discuss the (12) usage of multiset container. Q.4. Develop and implement class template similar to vector template of STL. (12)O.5. Bring out the difference between mutating and non-mutating algorithms. (12)List the any five non-mutating algorithm and illustrate usage of it. Q.6. Illustrate the extractors and insertors with code. **(12)** Q.7. Write short note on the following (Any THREE) (12)Allocators Exception Handling in C++. b) c) List d) Function objects **SECTION-II** Q.8. Write a STL program to maintain the database of students with his/her (16)height. Sort the entire data according to height by using STL algorithm. Also find whether particular students height is bellow or above average height. **Q.9** Write your own class template vector, use the same to implement a queue. **(16)** Q.10. Develop and implement an algorithm based on STL's Map. To find five (16) top students in university examination based on their marks.

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