

## 600.363 (Intro Algos)-463(Algos I)

### Topics Topics for MidSem1 Examination

1. Speed of Algorithms
2. Correctness of Algorithms
3. Order of notation
4. Divide and Conquer technique
5. Sorting
6. Order Statistics
7. Dynamic Programming
8. Elementary Data Structures
9. Dictionary Operations

### Specific Sections and Subsections

1. Section 1
2. Section 2
3. Sub-section 3.1 ( $o$  and  $\omega$  not covered)
4. Sub-sections 4.2,4.3, 4.5
5. Section 6
6. Sub-section 8.1
7. Sub-section 9.3
8. Sub-section 8.3
9. Sub-sections 15.4,15.2
10. Section 10
11. Subsections 12.1, 12.2, 12.3
12. AVL trees, 2,3 trees, 2-4 trees, Red-Black trees (not in depth)