

# Computer Science Foundation Exam

January 12, 2019

## Section I B

### DATA STRUCTURES

### SOLUTIONS

**NO books, notes, or calculators may be used,  
and you must work entirely on your own.**

Question #	Max Pts	Category	Passing	Score
1	5	DSN	3	
2	10	ALG	7	
3	10	ALG	7	
TOTAL	25		17	

**You must do all 3 problems in this section of the exam.**

**Problems will be graded based on the completeness of the solution steps and not graded based on the answer alone. Credit cannot be given unless all work is shown and is readable. Be complete, yet concise, and above all be neat. For each coding question, assume that all of the necessary includes (stdlib, stdio, math, string) for that particular question have been made.**