

# COL733 Project\_Exam

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TOTAL POINTS

10 / 20

## QUESTION 1

### Fugue 5 pts

1.1 Q 1.1 2.5 / 2.5

🔒 + 0 pts Incorrect

! + 2.5 pts *Dense ordering is required to insert a character in between any two characters*

1.2 Q 1.2 2.5 / 2.5

🔒 + 0 pts Incorrect

! + 2.5 pts *unique total order ensures consistent order of characters across replicas*

## QUESTION 2

### GFS with SWIM 5 pts

2.1 Q 2.1 0 / 2.5

! + 0 pts *Incorrect*

🔒 + 2.5 pts *master and CS were partitioned: CS was incorrectly declared dead*

2.2 Q 2.2 0 / 2.5

! + 0 pts *Incorrect*

🔒 + 2.5 pts *One CS can talk to another CS but cannot talk to master*

## QUESTION 3

### RedBlue Consistency 5 pts

3.1 Q 3.1 1 / 1

🔒 + 0 pts Incorrect

! + 1 pts *Correct*

3.2 Q 3.2 2 / 2

🔒 + 0 pts Incorrect

! + 2 pts *Divergent state*

🔒 + 1 pts *Missing example*

3.3 Q 3.3 1 / 2

! + 0 pts *Incorrect*

🔒 + 2 pts *Make accrueInterest commute with deposit by changing multiplication to addition*  
+ 1 *Point adjustment*

Missed main point: make it commute

## QUESTION 4

4 Pregel 1 / 5

🔒 + 0 pts Incorrect

🔒 + 2 pts *Vertices with no change vote to halt*

🔒 + 2 pts *supersteps*

! + 1 pts *Only active vertices send messages*

🔒 - 2 pts *Computed max, not min.*







