**Bradbury Quiz (20 min.)**

**No notes, no computers, no phones**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What is λ (lambda)? Φ(phi)? What are typical values for these parameters? Include a written description and any necessary equations.
2. What are the differences between carburation, SDI, and DI?
3. What is the purpose of a tuned pipe? What are the 5 sections?
4. Describe stratified and homogeneous injection. Can both be used on the same engine?
5. What is the water hammer effect? What on our snowmobile uses the water hammer effect?
6. Describe the CVT. Do we have any projects pertaining to the CVT?
7. Describe the advantages and disadvantages of turbocharging a two-stroke.
8. What CSC projects have you been working on, and what project teams are you working with? If not on a project, put N/A.
9. What snowmobile will we be competing with in the 2019 Clean Snowmobile Challenge? (Year, make/model, engine, tracklength, etc.)
10. What do HEV and SmERF stand for? What do we do in these labs?