

**HW#6 Internal Combustion Engines**

1) Why are carbureted 2-stroke SI engines typically run rich?

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

2) What are the major contributing factors to the high emissions of carbureted 2-stroke engines?

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

3) Why are Diesels more efficient than SI engines? Give at least 4 good reasons.

4) Why do Diesels usually have lower power densities than SI engines?

5) What factors contribute to knock in an SI engine? List them and indicate which direction they change to aggravate knock (eg. Color: Dark cars have a greater tendency to knock). What factors contribute to knock in CI engines?