

Engineering Materials (MSE-220)

Assignment # 4

- 1) Describe the difference between wear and erosion.
- 2) Name 3 types of erosion and describe how they damage a material.
- 3) What type of adhesive wear might be seen on an old working piston?
- 4) Mention the main 2 types of bearings
- 5) Mention the 3 types of lubrication.
- 6) Name 3 types of friction?
- 7) Why is it not advisable to self-mate plastics in a system?
- 8) What materials are more suitable for liquid erosion conditions?
- 9) Fill in the blank.

Brittle materials erode fastest when impingement is to the surface.
- 10) How is static friction different than kinetic friction?
- 11) What is the equation for force of friction?

Note:

Read the given text and presentation slides for Chapter 5 very carefully and be ready for more difficult questions.

